STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 165876

TO: Suzanne M Mayer
Location: REM/3E84/3C70
Art Unit: 1653
Sept 17 ____, 2005

Case Serial Number: 10/795795

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

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STIC-Biotech/ChemLib

165876

From: Chan, Christina
Sent: Thursday, September 15, 2005 3:25 PM
To: Mayer, Suzanne Marie; STIC-Biotech/ChemLib
Subject: RE: Rush 10/795795

Please rush. Thanks Chris

Chris Chan
TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----
From: Mayer, Suzanne Marie
Sent: Thursday, September 15, 2005 2:22 PM
To: Chan, Christina
Subject: RE: Rush 10/795795

Chris,

Could I get these two small peptides rushed through please on this special case, I had sent it previously, but they have come in with new proposed min. and max. length requirements.

Thank you!!!!!!!!

Dear search staff:

Factor Va αα 322-331   352-356

Please search SEQ ID NO: 6 (10 amino acids) and SEQ ID NO:12 (5 amino acids) against amino-acid-databases in both commercial and interference databases. *** Please limit the search to a minimum length of 3 and a maximum length of 10.

Please call with any questions.

Suzy

Suzanne M. Mayer, Ph.D.
Patent Examiner
United States Patent and Trademark Office
400 Dulany St. - Remsen
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Fax: 571-273-2924
AU 1653: 3 E 84
Mailbox: 3 C 70

RECEIVED SEP 15 2005 TECH/CHEM. DIVISION (STIC)

****
Searcher:_____
Searcher Phone:_____
Date Searcher Picked up:_____
Date completed:_____
Searcher Prep Time:_____
Online Time:_____

****
Type of Search
NA#_____ AA#:_____
S/L:_____ Oligomer:_____
Encode/Transl:_____
Structure #:_____ Text:____
Inventor:_____ Litigation:___

****
Vendors and cost where applicable
STN:_____
DIALOG:_____
QUESTEL/ORBIT:_____
LEXIS/NEXIS:_____
SEQUENCE SYSTEM:_____
WWW/Internet:_____
Other (Specify):_____

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74t 1○3E
(3zz-33)

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              GenCore version 5.1.6
        Copyright (c) 1993 - 2005  Compugen Ltd.

OM protein - protein search, using sw model

Run on:      September 16, 2005, 11:42:23 ; Search time 155.333 Seconds
                                            (without alignments)
                                            24.899 Million cell updates/sec

Title:          US-10-795-795-6
Perfect score:  55
Sequence:       1 WEYFIAAEEV 10

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5
Searched:       2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters:        464945

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :    A_Geneseq_16Dec04:*
           1: geneseqp1980s:*
           2: geneseqp1990s:*
           3: geneseqp2000s:*
           4: geneseqp2001s:*
           5: geneseqp2002s:*
           6: geneseqp2003as:*
           7: geneseqp2003bs:*
           8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
```

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	55	100.0	10	6	ABU62020	Abu62020 Human blo
2	55	100.0	10	8	ADS64542	Ads64542 Human blo
3	33	60.0	10	6	ABU62019	Abu62019 Human blo
4	33	60.0	10	8	ADS64541	Ads64541 Human blo
5	29	52.7	9	4	AAY72469	Aay72469 Human-DNA
6	29	52.7	9	4	AAG63594	Aag63594 Peptide_d
7	27	49.1	9	2	AAW03705	Aaw03705 Lys(4), D
8	27	49.1	10	5	ABG65739	Abg65739 Plant ICK
9	26	47.3	9	6	AAW78369	Aaw78369 Isoelectr
10	26	47.3	9	5	ABG79015	Abg79015 Human MAG
11	26	47.3	6	6	ABR82656	Abr82656 Immune-mo
12	26	47.3	9	1	AAP20184	Aap20184 Sequence
13	26	47.3	9	1	AAP30521	Aap30521 Sequence
14	26	47.3	9	2	AAY46157	Aay46157 Immunogen
15	26	47.3	9	2	AAY45504	Aay45504 Immunogen
16	26	47.3	9	2	AAY46158	Aay46158 Immunogen
17	26	47.3	9	2	AAY46170	Aay46170 Immunogen
18	26	47.3	9	3	AAY00813	Aay00813 HLA-A24 a
19	26	47.3	9	4	AAG84792	Aag84792 MAGE3 HLA
20	26	47.3	9	7	ADE68466	Ade68466 Human 161
21	26	47.3	9	7	ADE68415	Ade68415 Human 161
22	26	47.3	9	7	ADE68608	Ade68608 Human 161
23	26	47.3	9	7	ADE68799	Ade68799 Human 161
24	26	47.3	9	7	ADE68739	Ade68739 Human 161
25	26	47.3	9	7	ADE68096	Ade68096 Human 161
26	26	47.3	9	7	ADE68258	Human 161
27	26	47.3	9	7	ADE66983	Human 161
28	26	47.3	9	7	ADE68740	Human 161
29	26	47.3	9	7	ADE68884	Human 161
30	26	47.3	9	7	ADE67039	Human 161
31	26	47.3	9	7	ADE69145	Human 161
32	26	47.3	9	7	ADE66327	Human 161
33	26	47.3	9	7	ADE66789	Human 161
34	26	47.3	9	7	ADE68257	Human 161
35	26	47.3	9	7	ADE66236	Human 161
36	26	47.3	9	7	ADE66483	Human 161
37	26	47.3	9	7	ADE67782	Human 161
38	26	47.3	9	7	ADE68414	Human 161
39	26	47.3	9	7	ADG38678	Human mel
40	26	47.3	9	8	ADG89583	Class I H
41	26	47.3	9	8	ADP80081	Human HLA
42	26	47.3	10	1	AAP10167	Sequence
43	26	47.3	10	1	AAP30391	Gonadotro
44	26	47.3	10	1	AAP50839	Sequence
45	26	47.3	10	1	AAP50509	Sequence

ALIGNMENTS

```
RESULT 1
ABU62020
ID   ABU62020 standard; peptide; 10 AA.
XX
AC   ABU62020;
XX
DT   26-AUG-2003  (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP4.
XX
KW   Human; blood coagulation factor Va; blood clotting factor Va;
KW   prothrombinase inhibition; prothrombinase-inhibiting peptide;
KW   blood clotting disorder; thrombotic disorder; blood clot formation;
KW   blood vessel obstruction; coronary artery disease; unstable angina;
KW   valvular heart disease; stable angina; myocardial infarction;
KW   atrial fibrillation; stroke; blood anticoagulation; anticoagulant.
XX
OS   Homo sapiens.
XX
PN   US2003040600-A1.
XX
PD   27-FEB-2003.
XX
PF   23-JUL-2001; 2001US-00911129.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K.
XX
PI   Kalafatis M, Mann K;
XX
DR   WPI; 2003-492177/46.
XX
PT   Novel anticoagulant peptide derived from the amino acid region 307-356 of
PT   human blood clotting factor Va, useful for preventing thrombotic
PT   disorders resulting from formation of blood clots that obstruct blood
PT   vessels.
XX
PS   Claim 10; Fig 2; 20pp; English.
XX
CC   The present invention relates to peptides derived from human blood
CC   coagulation (clotting) factor Va which exhibit inhibition of
CC   prothrombinase. A pharmaceutical composition comprising one or more of
CC   the prothrombinase-inhibiting peptides may be used for treating human
CC   subjects with blood clotting disorders. The peptides are useful for
CC   preventing thrombotic disorders resulting from the formation of blood
CC   clots that obstruct blood vessels, e.g. due to a condition chosen from
```

```
CC   coronary artery disease, valvular heart disease, stable and unstable
CC   angina, myocardial infarction, atrial fibrillation and stroke. The
CC   peptides of the invention exhibit an IC50 of between 50 nanoM-500 microM
CC   for inhibition of prothrombinase. The peptides exhibit excellent blood
CC   anticoagulation properties with little or no adverse side effects. The
CC   present sequence represents a peptide that inhibits prothrombinase
CC   activity
XX
SQ   Sequence 10 AA;

Query Match             100.0%;  Score 55; DB 6;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 0.0029;
Matches  10;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 WEYFIAAEEV 10
              ||||||||||
Db          1 WEYFIAAEEV 10

RESULT 2
ADS64542
ID   ADS64542 standard; peptide; 10 AA.
XX
AC   ADS64542;
XX
DT   16-DEC-2004  (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP4.
XX
KW   Prothrombinase inhibitor; human; blood coagulation factor Va;
KW   blood clotting disorder; thrombotic disorder; thrombolytic.
XX
OS   Homo sapiens.
XX
PN   US2004186271-A1.
XX
PD   23-SEP-2004.
XX
PF   08-MAR-2004; 2004US-00795795.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K G.
XX
PI   Kalafatis M, Mann KG;
XX
DR   WPI; 2004-689241/67.
XX
PT   New prothrombinase-inhibiting peptide derived from a specific amino acid
PT   sequence of human blood coagulation factor Va, useful for treating human
PT   subjects with blood clotting disorders.
XX
PS   Claim 10; SEQ ID NO 6; 20pp; English.
XX
CC   The present invention relates to a prothrombinase-inhibiting peptide
CC   derived from a specific amino acid sequence of human blood coagulation
CC   factor Va. The invention is useful for treating human subjects with blood
CC   clotting disorders. The invention is also useful for preventing
CC   thrombotic disorders resulting from formation of blood clots that
CC   obstructs blood vessels. The present sequence is the human blood
CC   coagulation factor Va peptide.
XX
SQ   Sequence 10 AA;

Query Match             100.0%;  Score 55; DB 8;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 0.0029;
Matches  10;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 WEYFIAAEEV 10
              ||||||||||
Db          1 WEYFIAAEEV 10


RESULT 3
ABU62019
ID   ABU62019 standard; peptide; 10 AA.
XX
AC   ABU62019;
XX
DT   26-AUG-2003  (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP3.
XX
KW   Human; blood coagulation factor Va; blood clotting factor Va;
KW   prothrombinase inhibition; prothrombinase-inhibiting peptide;
KW   blood clotting disorder; thrombotic disorder; blood clot formation;
KW   blood vessel obstruction; coronary artery disease; unstable angina;
KW   valvular heart disease; stable angina; myocardial infarction;
KW   atrial fibrillation; stroke; blood anticoagulation; anticoagulant.
XX
OS   Homo sapiens.
XX
PN   US2003040600-A1.
XX
PD   27-FEB-2003.
XX
PF   23-JUL-2001; 2001US-00911129.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K.
XX
PI   Kalafatis M,  Mann K;
XX
DR   WPI; 2003-492177/46.
XX
PT   Novel anticoagulant peptide derived from the amino acid region 307-356 of
PT   human blood clotting factor Va, useful for preventing thrombotic
PT   disorders resulting from formation of blood clots that obstruct blood
PT   vessels.
XX
PS   Claim 10; Fig 2; 20pp; English.
XX
CC   The present invention relates to peptides derived from human blood
CC   coagulation (clotting) factor Va which exhibit inhibition of
CC   prothrombinase. A pharmaceutical composition comprising one or more of
CC   the prothrombinase-inhibiting peptides may be used for treating human
CC   subjects with blood clotting disorders. The peptides are useful for
CC   preventing thrombotic disorders resulting from the formation of blood
CC   clots that obstruct blood vessels, e.g. due to a condition chosen from
CC   coronary artery disease, valvular heart disease, stable and unstable
CC   angina, myocardial infarction, atrial fibrillation and stroke. The
CC   peptides of the invention exhibit an IC50 of between 50 nanoM-500 microM
CC   for inhibition of prothrombinase. The peptides exhibit excellent blood
CC   anticoagulation properties with little or no adverse side effects. The
CC   present sequence represents a peptide that inhibits prothrombinase
CC   activity
XX
SQ   Sequence 10 AA;

Query Match             60.0%;   Score 33; DB 6;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 29;
Matches   5;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 WEYFI 5
              |||||
Db          6 WEYFI 10

RESULT 4
ADS64541
ID   ADS64541 standard; peptide; 10 AA.
XX
AC   ADS64541;
```

XX
DT   16-DEC-2004   (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP3.
XX
KW   Prothrombinase inhibitor; human; blood coagulation factor Va;
KW   blood clotting disorder; thrombotic disorder; thrombolytic.
XX
OS   Homo sapiens.
XX
PN   US2004186271-A1.
XX
PD   23-SEP-2004.
XX
PF   08-MAR-2004; 2004US-00795795.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K G.
XX
PI   Kalafatis M, Mann KG;
XX
DR   WPI; 2004-689241/67.
XX
PT   New prothrombinase-inhibiting peptide derived from a specific amino acid
PT   sequence of human blood coagulation factor Va, useful for treating human
PT   subjects with blood clotting disorders.
XX
PS   Claim 10; SEQ ID NO 5; 20pp; English.
XX
CC   The present invention relates to a prothrombinase-inhibiting peptide
CC   derived from a specific amino acid sequence of human blood coagulation
CC   factor Va. The invention is useful for treating human subjects with blood
CC   clotting disorders. The invention is also useful for preventing
CC   thrombotic disorders resulting from formation of blood clots that
CC   obstructs blood vessels. The present sequence is the human blood
CC   coagulation factor Va peptide.
XX
SQ   Sequence 10 AA;
XX

Query Match   60.0%; Score 33; DB 8; Length 10;
Best Local Similarity 100.0%; Pred. No. 29;
Matches   5; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYFI 5
              |||||
Db   6 WEYFI 10

RESULT 5
AAY72469
ID   AAY72469 standard; peptide; 9 AA. *αα 100 102 E*
XX
AC   AAY72469;
XX
DT   24-APR-2001   (first entry)
XX
DE   Human DNA fragmentation factor 40 (DFF40) derived peptide #1.
XX
KW   Human; DNA fragmentation factor; DFF; apoptosis; molecular chaperone;
KW   gene therapy; hyperproliferative disorder; therapy; tumour; restenosis;
KW   psoriasis; angiogenesis; cancer; cytostatic; neoplasia.
XX
OS   Homo sapiens.
XX
PN   US615737-A.
XX
PD   26-DEC-2000.
XX
PF   16-APR-1998; 98US-00061702.
XX
PR   16-APR-1998; 98US-00061702.

XX
PA   (TEXA) UNIV TEXAS SYSTEM.
XX
PI   Wang X, Liu X;
XX
DR   WPI; 2001-090481/10.
XX
PT   Identifying modulator of human DNA fragmentation factor 40, for treating
PT   cancer, involves contacting cell or cell-free composition comprising
PT   DFF40 with candidate substance and comparing apoptosis with control.
XX
PS   Example 1; Col 63; 52pp; English.
XX
CC   The present sequence is a human DNA fragmentation factor 40 (DFF40)
CC   derived peptide. DFF is a heterodimeric protein comprising 40KDa and
CC   45KDa subunits. DFF40 is capable of inducing apoptosis. DFF45 acts as a
CC   molecular chaperone to facilitate the appropriate folding of DFF40 and
CC   acts as an inhibitor for DFF40. DFF40 and DFF45 are used in gene therapy.
CC   The modulators of human DFF40 activity are useful for inducing apoptosis
CC   and for treating hyperproliferative disorders such as restenosis,
CC   psoriasis, metastatic tumours, angiogenesis and benign and malignant
CC   neoplasias. They are also used for treating cancers of the brain
CC   (glioblastoma, astrocytoma, oligodendroglioma and ependymoma), lung,
CC   liver, spleen, kidney, lymph node, pancreas, small intestine, blood
CC   cells, colon, stomach, breast, endometrium, prostate, testicle, ovary,
CC   skin, head and neck, oesophagus, bone marrow, blood, other tissue and
CC   multi-drug resistant cancer
XX
SQ   Sequence 9 AA;
XX

Query Match   52.7%; Score 29; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
              ||||
Db   4 WEYF 7

RESULT 6
AAG63594
ID   AAG63594 standard; peptide; 9 AA.
XX
AC   AAG63594;
XX
DT   15-OCT-2001   (first entry)
XX
DE   Peptide derived from human DNA fragmentation factor 40 (DFF40).
XX
KW   Human; DNA fragmentation factor; DFF40; DFF45; apoptosis; DNase;
KW   molecular chaperone; cancer cell.
XX
OS   Homo sapiens.
XX
PN   US2001011078-A1.
XX
PD   02-AUG-2001.
XX
PF   22-DEC-2000; 2000US-00748451.
XX
PR   16-APR-1998; 98US-00061702.
XX
PA   (TEXA) UNIV TEXAS SYSTEM.
XX
PI   Wang X, Liu X;
XX
DR   WPI; 2001-496169/54.
XX
PT   New DNA fragmentation factor polypeptides and polynucleotides, useful for
PT   inhibiting the growth of cancer cells, as well as for inducing apoptosis
PT   of cells.
XX
PS   Example 1; Page 19; 56pp; English.

```
XX
CC   The present sequence represents a peptide, derived from human DNA
CC   fragmentation factor subunit of 40 kDa, designated DFF40. The peptide was
CC   used to design a PCR primer (AAH74644). The specification also describes
CC   DFF45. DFF40 is capable of inducing apoptosis, and may contain a nuclear
CC   localisation fragment. DFF45 acts as a molecular chaperone to direct the
CC   folding of DFF40. Although all DNase activity is associated with DFF40,
CC   DFF activity only occurs once DFF40 is complexed with DFF45. The DFF
CC   polypeptides and polynucleotides are useful for inhibiting the growth of
CC   cancer cells, and for inducing apoptosis of cells
XX
SQ   Sequence 9 AA;

Query Match             52.7%;  Score 29;  DB 4;  Length 9;
Best Local Similarity   100.0%;  Pred. No. 1.8e+06;
Matches    4;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps . 0;

Qy    1 WEYF 4
         ||||
Db    4 WEYF 7

RESULT 7
AAW03705
ID   AAW03705 standard; peptide; 9 AA.
XX
AC   AAW03705;
XX
DT   25-FEB-1997 (first entry)
XX
DE   Lys(4), D-Phe(6)-hGnRH(1-9)-ethylamide.
XX
KW   gonadotropin releasing hormone; GnRH; analogue; conjugate;
KW   poly(N-vinylpyrrolidone-co-maleic anhydride) polymer; breast cancer.
XX
OS   Synthetic.
XX
FH   Key          Location/Qualifiers
FT   Modified-site 1
FT               /note= "pyro-Glu"
FT   Misc-difference 6
FT               /note= "D-form residue"
FT   Modified-site 9
FT               /note= "Pro-NHEt"
XX
PN   WO9604927-A1.
XX
PD   22-FEB-1996.
XX
PF   09-AUG-1995;  95WO-US010054.
XX
PR   10-AUG-1994;  94HU-00002328.
PR   10-AUG-1994;  94HU-00002329.
XX
PA   (LOVA/) LOVAS S.
PA   (MURP/) MURPHY R F.
PA   (TOTH/) TOTH G.
PA   (KALN/) KALNAY A.
PA   (GAAL/) GAAL D.
PA   (PALY/) PALYI I.
PA   (TURI/) TURI G.
PA   (VINC/) VINCZE B.
PA   (MEZO/) MEZO I.
PA   (TANA/) TANAI H.
PA   (VADA/) VADASZ Z.
PA   (TEPL/) TEPLAN I.
PA   (SEPR/) SEPRODI J.
XX
PI   Lovas S, Murphy RF, Toth G, Kalnay A, Gaal D, Palyi I, Turi G;
PI   Vincze B, Mezo I, Tanai H, Vadasz Z, Teplan I, Seprodi J;
XX
DR   WPI; 1996-139455/14.
XX

PT   New conjugates of active peptide(s) - are useful for inhibiting growth of
PT   cancers esp. breast cancer.
PS   Claim 15; Page 68; 70pp; English.
XX
CC   Two new types of GnRH peptide molecules are provided. The first type
CC   consists of a poly(N-vinylpyrrolidone-co-maleic anhydride) polymer having
CC   conjugated to it a number of molecules of native GnRH or a GnRH analogue.
CC   Conjugation is by condensation between a carbonyl group attached to the
CC   polymer backbone and a side chain epsilon-amino group of a Lys residue of
CC   the GnRH or its analogue. Optionally this condensation may be via the
CC   intermediary of a peptide spacer group (preferably -Gly-Phe-Leu-Gly-, -
CC   Phe-Leu-Gly-, Gly-Leu-Gly- or -Ahx-). The second type consists of
CC   specific GnRH analogues which are themselves new and which can optionally
CC   be used as components of the above conjugate. Both types of molecule are
CC   useful as inhibitors of tumours, particularly breast cancer. The present
CC   sequence represents a specifically claimed example of the new GnRH
CC   analogues
XX
SQ   Sequence 9 AA;

Query Match             49.1%;  Score 27;  DB 2;  Length 9;
Best Local Similarity   60.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative   2;  Mismatches   2;  Indels   0;  Gaps   0;

Qy    1 WEYFI 5
         |:|||
Db    3 WKYFL 7

RESULT 8
ABG65739
ID   ABG65739 standard; peptide; 10 AA.
XX
AC   ABG65739;
XX
DT   27-AUG-2002 (first entry)
XX
DE   Plant ICK protein conserved motif 1 #47.
XX
KW   Plant; inhibitor of cyclin dependent kinase; ICK.
XX
OS   Oryza sativa.
XX
PN   WO200228893-A2.
XX
PD   11-APR-2002.
XX
PF   29-JUN-2001; 2001WO-IB001492.
XX
PR   14-JUL-2000; 2000US-0218471P.
PR   13-OCT-2000; 2000US-0241219P.
XX
PA   (CROP-) CROPDESIGN NV.
XX
PI   Frankard VMS, Peres Bota AM, Drooual A, Mironov V, Inze D;
PI   Hatzfeld Y;
XX
DR   WPI; 2002-471311/50.
XX
PT   Novel plant ICK (inhibitors of Cyclin Dependent Kinases) polypeptide used
PT   to screen substrates, drugs or compounds which modulate ICK activity and
PT   treat disorders characterised by an insufficient or excessive production
PT   of ICK inhibitors.
XX
PS   Disclosure; Page 14; 141pp; English.
XX
CC   This invention relates to the DNA and protein sequences of novel isolated
CC   ICK (Inhibitors of Cyclin Dependent Kinases) proteins. The sequences of
CC   the invention may be used for treating disorders characterised by
CC   insufficient or excessive production of an ICK inhibitor. The protein of
CC   the invention may also be used to screen for naturally-occurring ICK
CC   substrates, drugs or compounds which modulate ICK activity, as well as to
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```
CC    treat disorders characterised by insufficient or excessive production of
CC    ICK protein, forms which have decreased or aberrant activity compared to
CC    ICK wild type protein. The present sequence represents an inhibitor of
CC    cyclin dependent kinase (ICK) protein of the invention
XX
SQ    Sequence 10 AA;

Query Match             49.1%;  Score 27;  DB 5; Length 10;
Best Local Similarity   75.0%;  Pred. No. 3.5e+02;
Matches    6;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 EYFIAAEE 9
              | | |||
Db          3 EAFPAAEE 10

RESULT 9
AAW78369
ID   AAW78369 standard; peptide; 6 AA.
XX
AC   AAW78369;
XX
DT   11-MAY-1999  (first entry)
XX
DE   Isoelectric focusing marker peptide #33.
XX
KW   Marker peptide; capillary isoelectric focusing electrophoresis; IEF; pI;
KW   tryptophan; detection; UV absorption.
XX
OS   Synthetic.
XX
PN   JP11023531-A.
XX
PD   29-JAN-1999.
XX
PF   03-JUL-1997;  97JP-00178579.
XX
PR   03-JUL-1997;  97JP-00178579.
XX
PA   (BUNS-) BUNSHI BIOHOTONICS KENKYUSHO KK.
XX
DR   WPI; 1999-170244/15.
XX
PT   Markers for isoelectric point electrophoresis in UV absorption detection
PT   - contain at least one tryptophan.
XX
PS   Claim 3; Page 2; 7pp; Japanese.
XX
CC   This peptide is a synthetic marker peptide used for isoelectric focusing
CC   electrophoresis, particularly capillary isoelectric focusing
CC   electrophoresis. The peptide contains at least on tryptophan amino acid
CC   residue for detection in the UV absorption range. The markers (AAW78364-
CC   W78379) provide sharp isolation, large UV absorption intensity and wide
CC   range of pI, and can be easily handled
XX
SQ    Sequence 6 AA;

Query Match             47.3%;  Score 26;  DB 2; Length 6;
Best Local Similarity   75.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 WEYF 4
              |||
Db          1 WEYY 4

RESULT 10
ABG79015
ID   ABG79015 standard; peptide; 6 AA.
XX
AC   ABG79015;
XX
DT   15-NOV-2002  (first entry)
```

```
XX
DB   Human MAGE-A2 class 3 HLA restricted testis cancer antigen peptide #6.
XX
KW   Cell penetrating peptide; cancer; tumour; melanoma; thymoma; antigen;
KW   lymphoma; sarcoma; lung cancer; non-Hodgkin's lymphoma; leukaemia;
KW   Hodgkin's lymphoma; uterine cancer; cervical cancer; bladder cancer;
KW   kidney cancer; adenocarcinoma; breast cancer; prostate cancer;
KW   ovarian cancer; pancreatic cancer; epitope; vaccine; dendritic cell;
KW   tumour infiltrating lymphocyte; TIL; human leukocyte antigen; HLA;
KW   cytostatic; human.
XX
OS   Homo sapiens.
XX
PN   WO20264057-A2.
XX
PD   22-AUG-2002.
XX
PP   15-FEB-2002; 2002WO-US005212.
XX
PR   15-FEB-2001; 2001US-0268687P.
XX
PA   (BAYU ) BAYLOR COLLEGE MEDICINE.
XX
PI   Wang R;
XX
DR   WPI; 2002-627577/67.
XX
PT   Novel composition for treating a disease in an animal, comprises an
PT   immune effector cell and cell penetrating peptide associated with an
PT   antigen or antibody.
XX
PS   Disclosure; Page 14; 61pp; English.
XX
CC   The invention relates to a composition (I) comprising an immune effector
CC   cell and a cell penetrating peptide (CPP) associated with an antigen or
CC   antibody. Also included are (1) a vaccine comprising (I), CPP associated
CC   with an antigen, and a pharmaceutically acceptable carrier and (2)
CC   preparing a composition for a disease, by providing (I) and CPP
CC   associated with an antigen for disease, and introducing the antigen-
CC   associated CPP to (I), where antigen enters into the cell. The antigens
CC   are, for example, tumour antigen derived epitopes recognised by tumour
CC   infiltrating lymphocytes (TIL) of HLA (human leukocyte antigen) class I
CC   or II. The composition is useful for enhancing immunity in an animal to a
CC   disease, by administering a mature dendritic cell comprising CPP
CC   associated with an antigen to disease, to the animal, such that following
CC   the administration, animal is protected from disease, where the animal
CC   comprises both CD4+ and CD8+ T cells. It is also useful for treating a
CC   disease (e.g. cancer, tumour, melanoma, thymoma, lymphoma, sarcoma, lung
CC   cancer, non-Hodgkin's lymphoma, leukaemia, Hodgkin's lymphoma, uterine
CC   cancer, cervical cancer, bladder cancer, kidney cancer, adenocarcinoma,
CC   breast cancer, prostate cancer ovarian cancer and pancreatic cancer).
CC   The animal is further subjected to a cancer treatment including surgery,
CC   radiation, chemotherapy or gene therapy. The administration of (I),
CC   preferably dendritic cell is prior to, subsequent to or concurrent with,
CC   the cancer treatment. The present sequence is a tumour antigen derived
CC   epitope for inclusion in the composition of the invention
XX
SQ    Sequence 6 AA;

Query Match             47.3%;  Score 26;  DB 5; Length 6;
Best Local Similarity   75.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 WEYF 4
              |:||
Db          1 WQYF 4

RESULT 11
ABR82656
ID   ABR82656 standard; peptide; 6 AA.
XX
AC   ABR82656;
```

```
XX
DT   04-DEC-2003 (first entry)
XX
DE   Immune-modulating peptide #5.
XX
KW   Immune modulation; formyl peptide receptor; antimicrobial; antibacterial;
KW   antiarthritic; antiinflammatory; antidiabetic; nephrotropic; cytostatic;
KW   osteopathic; vasotropic; gene therapy; FPR.
XX
OS   Synthetic.
XX
FH   Key            Location/Qualifiers
FT   Modified-site  6
FT                  /note= "C-terminal amide"
FT   Misc-difference 6
FT                  /note= "D-form residue"
XX
PN   WO200306447-A2.
XX
PD   07-AUG-2003.
XX
PF   28-JAN-2003; 2003WO-KR000191.
XX
PR   29-JAN-2002; 2002US-0352930P.
XX
PA   (POSC-) POSCO.
PA   (POST-) POSTECH FOUND.
PA   (RYUS/) RYU S.
PA   (SUHP/) SUH P.
PA   (BAEY/) BAE Y.
PA   (SONG/) SONG J.
XX
PI   Ryu S,   Suh P,   Bae Y,   Song J;
XX
DR   WPI; 2003-646137/61.
XX
PT   New peptide, useful for preparing composition for treating a disorder
PT   e.g., rheumatoid arthritis, lung inflammation or cancer.
XX
PS   Claim 1; Page 9; 57pp; English.
XX
CC   The invention relates to immune-modulating peptides of the formyl
CC   receptor family comprising a sequence having 3-6 amino acids. The
CC   peptides are useful for preparing composition for treating a disorder
CC   e.g., infection, rheumatoid arthritis, Lyme's arthritis, gout, sepsis
CC   syndrome, hyperthermia, ulcerative colitis, enterocolitis, osteoporosis,
CC   periodontal disease, glomerulonephritis, type I insulin dependent
CC   diabetes mellitus, lung inflammation or cancer. Sequences ABR82652-675
CC   represent specific examples of the immune-modulating peptides of the
CC   invention
XX
SQ   Sequence 6 AA;

Query Match             47.3%;  Score 26;  DB 7;  Length 6;
Best Local Similarity   60.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 WEYFI 5
              ||| :
Db          1 WEYMV 5

RESULT 12
AAP20184
ID   AAP20184 standard; peptide; 9 AA.
XX
AC   AAP20184;
XX
DT   27-AUG-2003 (revised)
DT   25-MAR-2003 (revised)
DT   19-AUG-1992 (first entry)
XX
DE   Sequence of analogue of the gonadotropin releasing factor LRF.
```

```
XX
KW   Gonadotropin; luteinising hormone releasing factor; contraceptive;
KW   fertility inhibitor; pregnancy termination; abortion;
KW   spermatogenesis inhibitor; ovulation; sex hormone.
XX
OS   Mammalia.
XX
FH   Key            Location/Qualifiers
FT   Modified-site  1
FT                  /label= p-Glu
FT   Misc-difference 6
FT                  /label= R-D-Phe
FT                  /note= "R=chloro,dichloro,methyl,nitro,
FT                  acetylamino,methoxy,pentamethyl; Specifically claimed
FT                  when R=4-chloro,3,4-dichloro,4-methyl, 4-methoxy,4-
FT                  nitro,pentamethyl"
FT   Modified-site  9
FT                  /label= Pro-NHEt
XX
PN   EP47079-A.
XX
PD   10-MAR-1982.
XX
PF   12-AUG-1981;   81EP-00303673.
XX
PR   29-AUG-1980;   80US-00182595.
PR   01-MAR-1982;   82US-00353237.
XX
PA   (SALK ) SALK INST BIOLOGICAL STUDIES.
XX
PI   Rivier JBF,  Vale WW;
XX
DR   WPI; 1982-20188E/11.
XX
PT   Peptide analogues of gonadotropin releasing factor - contg. modified D-
PT   phenylalanine in 6 position, esp. useful for fertility control.
XX
PS   Claim 1; Page 17; 19pp; English.
XX
CC   The peptides of the invention are more potent than LRF in inducing
CC   secretion of gonadotropins, e.g. with 36-143 times the potency of LRF in
CC   inducing secretion of luteinising hormone by rat pituitary cells. At high
CC   doses they can be used to inhibit male and female fertility, terminate
CC   pregnancy, and inhibit spermatogenesis in males. At low doses they can be
CC   used to resore fertility and allow timing of ovulation. They can also be
CC   used to reduce sex hormone levels, e.g. in cases of sex-hormone-dependent
CC   neoplasma, precocious puberty, endometriosis or dysmenorrhoea. (Updated
CC   on 25-MAR-2003 to correct PA field.) (Updated on 27-AUG-2003 to correct
CC   OS field.)
XX
SQ   Sequence 9 AA;

Query Match             47.3%;  Score 26;  DB 1;  Length 9;
Best Local Similarity   60.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 WEYFI 5
              | ||:
Db          3 WSYFL 7

RESULT 13
AAP30521
ID   AAP30521 standard; peptide; 9 AA.
XX
AC   AAP30521;
XX
DT   25-MAR-2003 (revised)
DT   16-AUG-2002 (revised)
DT   14-JUN-1992 (first entry)
XX
DE   Sequence of luteinising hormone releasing factor (LRF) analogue.
XX
```

RESULT 14
AAY46157
ID   AAY46157 standard; peptide; 9 AA.
XX
AC   AAY46157;
XX
DT   01-DEC-1999 (first entry)
XX
DE   Immunogenic peptide having a human leukocyte antigen binding motif #768.
XX
KW   Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA;
KW   immune response; T cell activation; major histocompatibility complex;
KW   cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer;
KW   prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;
KW   vaccine; immunisation.
XX
OS   Synthetic.
OS   Homo sapiens.
XX
PN   WO9945954-A1.
XX
PD   16-SEP-1999.
XX
PF   13-MAR-1998;   98WO-US005039.
XX
PR   13-MAR-1998;   98WO-US005039.
XX
PA   (EPIM-) EPIMMUNE INC.
XX
PI   Sette A, Kubo RT, Sidney J, Cells E, Grey HM, Southwood S;
XX
DR   WPI; 1999-551214/46.
XX
PT   New immunogenic peptides with HLA binding motif, useful in treatment and
PT   diagnosis of cancers and viral diseases.
XX
PS   Claim 1; Page 59; 150pp; English.
XX
CC   AAY45390 to AAY48214 represent specifically claimed immunogenic peptides
CC   having a human major histocompatibility complex (MHC) Class I (also known
CC   as human leukocyte antigen (HLA)) binding motif. The immunogenic peptides
CC   can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A.2.1, A1, A3.2
CC   or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against
CC   the antigen from which the peptide is derived. Cytotoxic T lymphocytes
CC   (CTLs) which destroy antigen-bearing cells are normally induced by an
CC   antigen in the form of a peptide fragment bound to a HLA molecule, rather
CC   than the intact foreign antigen itself, and are particularly important in
CC   tumour rejection and in fighting viral infections. The peptides are
CC   therefore useful therapeutically to treat or prevent viral infections and
CC   cancers in mammals (especially humans) e.g. prostate cancer, hepatitis B
CC   and C, AIDS, and renal carcinoma. They can be administered as vaccines to
CC   elicit an immune response in individuals susceptible or otherwise at risk
CC   of viral infection or cancer, or used to treat chronic or acute
CC   conditions. They are also useful diagnostically, and can be used to
CC   induce a cytotoxic T cell response, by contacting a cytotoxic T cell with
CC   the peptide e.g. to produce CTLs ex vivo for infusion back into a
CC   patient. The polynucleotides encoding the immunogenic peptides are also
CC   useful therapeutically and for immunisation as above
XX
SQ   Sequence 9 AA;

Query Match   47.3%; Score 26; DB 2; Length 9;
Best Local Similarity   75.0%; Pred. No. 1.8e+06;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
          |:||
Db   6 WQYF 9

RESULT 15
AAY45504
ID   AAY45504 standard; peptide; 9 AA.

KW   Gonadotropin-releasing activity; fertility; inhibitor; oestrus;
KW   sex hormone; contraceptive.
OS   Synthetic.
XX
FH   Key   Location/Qualifiers
FT   Modified-site 1
FT   /label= p-E(A),X1-p-E(B)
FT   /note= "X1=H,protecting gp."
FT   Modified-site 2
FT   /label= H(X2)(B)
FT   /note= "X2=tosyl,benzyl,2,2,2-trifluoro-1- (benzyloxy-
FT   carbonylamino)ethyl, 2,2,2-trifluro-1-(t-
FT   burylooxycarbonyl- amino)ethyl,2,4-dinotrothiophenyl"
FT   Modified-site 4
FT   /label= S(X3)(B)
FT   /note= "X3=acetyl,benzoyl,tetrahydropyranyl, t-
FT   butyl,trityl,benzyl,2,6-dichlorobenzyl"
FT   Modified-site 5
FT   /label= Y-(X4)(B)
FT   /note= "X4=tetrahydropyranyl,t-butyl,trityl,
FT   benzyl,benzyloxy-carbonyl, 4-bromobenzyloxycarbonyl,2,6-
FT   dichlorobenzyl"
FT   Modified-site 6
FT   /label= methyl-,nitro-,methoxy-D-F (A&B)
FT   Modified-site 8
FT   /label= R(X5)(B)
FT   /note= "X5=nitro,tosyl,benzyloxycarbonyl,
FT   adamantyloxycarbonyl,t-butyloxycarbonyl (Boc),H"
FT   Modified-site 9
FT   /label= P-NH-CH2-CH3 (A),P-X6(B)
FT   /note= "X6=NHEt,OCH2-R;R=resin support"
XX
PN   US4382922-A.
XX
PD   10-MAY-1983.
XX
PF   29-AUG-1980;   80US-00182595.
XX
PR   29-AUG-1980;   80US-00182595.
PR   01-MAR-1982;   82US-00353237.
XX
PA   (SALK) SALK INST BIOLOGICAL STUDIES.
XX
PI   Rivier JEF, Vale WW;
XX
DR   WPI; 1983-51493K/21.
XX
PT   Peptide(s) with gonadotropin-releasing activity - comprising LRF
PT   analogues with substd. D-phenylalanine gp.
XX
PS   Claim 1; Col 9; 6pp; English.
XX
CC   The inventors claim two different ways of modifying the SQ in AAP30521 -
CC   (A) & (B)(see FT).The claimed peptides are LRF analogues with ca. 130-140
CC   times the gonadotropin-releasing activity of LRF. They can be used to
CC   regulate (inhibit or restore) fertility in male and female mammals,
CC   control oestrus, and reduce sex hormone levels. B is an intermediate for
CC   A (see FT). (Updated on 16-AUG-2002 to add missing OS field.) (Updated on
CC   25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to correct PA
CC   field.)
XX
SQ   Sequence 9 AA;

Query Match   47.3%; Score 26; DB 1; Length 9;
Best Local Similarity   60.0%; Pred. No. 1.8e+06;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYFI 5
          ||| |:
Db   3 WSYFL 7

```
XX
AC   AAY45504;
XX
DT   01-DEC-1999  (first entry)
XX
DE   Immunogenic peptide having a human leukocyte antigen binding motif #115.
XX
KW   Human leukocyte antigen; binding; immunogenic; glycoprotein; MHC; HLA;
KW   immune response; T cell activation; major histocompatibility complex;
KW   cytotoxic T lymphocyte; CTL; tumour rejection; viral infection; cancer;
KW   prostate cancer; hepatitis B; hepatitis C; AIDS; renal carcinoma;
KW   vaccine; immunisation.
XX
OS   Synthetic.
OS   Homo sapiens.
XX
PN   WO9945954-A1.
XX
PD   16-SEP-1999.
XX
PF   13-MAR-1998;  98WO-US005039.
XX
PR   13-MAR-1998;  98WO-US005039.
XX
PA   (EPIM-) EPIMMUNE INC.
XX
PI   Sette A,  Kubo RT,  Sidney J,  Celis E,  Grey HM,  Southwood S;
XX
DR   WPI; 1999-551214/46.
XX
PT   New immunogenic peptides with HLA binding motif, useful in treatment and
PT   diagnosis of cancers and viral diseases.
XX
PS   Claim 1; Page 31; 150pp; English.
XX
CC   AAY45390 to AAY48214 represent specifically claimed immunogenic peptides
CC   having a human major histocompatibility complex (MHC) Class I (also known
CC   as human leukocyte antigen (HLA)) binding motif. The immunogenic peptides
CC   can bind to a specific HLA allele (i.e. HLA-A subtypes HLA-A2.1, A1, A3.2
CC   or A24.1 or HLA-B or C) and induce a cytotoxic T cell response against
CC   the antigen from which the peptide is derived. Cytotoxic T lymphocytes
CC   (CTLs) which destroy antigen-bearing cells are normally induced by an
CC   antigen in the form of a peptide fragment bound to a HLA molecule, rather
CC   than the intact foreign antigen itself, and are particularly important in
CC   tumour rejection and in fighting viral infections. The peptides are
CC   therefore useful therapeutically to treat or prevent viral infections and
CC   cancers in mammals (especially humans) e.g. prostate cancer, hepatitis B
CC   and C, AIDS, and renal carcinoma. They can be administered as vaccines to
CC   elicit an immune response in individuals susceptible or otherwise at risk
CC   of viral infection or cancer, or used to treat chronic or acute
CC   conditions. They are also useful diagnostically, and can be used to
CC   induce a cytotoxic T cell response, by contacting a cytotoxic T cell with
CC   the peptide e.g. to produce CTLs ex vivo for infusion back into a
CC   patient. The polynucleotides encoding the immunogenic peptides are also
CC   useful therapeutically and for immunisation as above
XX
SQ   Sequence 9 AA;

Query Match             47.3%;  Score 26;  DB 2;  Length 9;
Best Local Similarity   75.0%;  Pred. No. 1.8e+06;
Matches    3;  Conservative   1;  Mismatches   0;  Indels    0;  Gaps    0;

Qy          1 WEYF 4
              |:||
Db          2 WQYF 5
```

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Job time : 157.333 secs

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                    GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:     September 16, 2005, 11:42:23 ; Search time 77.6667 Seconds
                                (without alignments)
                                24.899 Million cell updates/sec

Title:          US-10-795-795-12
Perfect score:  26
Sequence:       1 LDNFS 5

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5
Searched:       2105692 seqs, 38676038l residues

Total number of hits satisfying chosen parameters:       464945

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       A_Geneseq_16Dec04:*
                 1: geneseqp1980s:*
                 2: geneseqp1990s:*
                 3: geneseqp2000s:*
                 4: geneseqp2001s:*
                 5: geneseqp2002s:*
                 6: geneseqp2003as:*
                 7: geneseqp2003bs:*
                 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                          SUMMARIES
```

Result No.	Score	Query Match %	Length	DB	ID	Description
1	26	100.0	5	6	ABU62026	Abu62026 Human blo
2	26	100.0	5	8	ADS64548	Ads64548 Human blo
3	26	100.0	10	6	ABU62025	Abu62025 Human blo
4	26	100.0	10	8	ADS64547	Ads64547 Human blo
5	22	84.6	7	2	AAR66795	Aar66795 Mouse syn
6	22	84.6	9	3	AAY79016	Aay79016 Urokinase
7	22	84.6	9	3	AAB10884	Aab10884 Human 9D7
8	22	84.6	10	4	AAM43099	Aam43099 Mycoplasm
9	21	80.8	6	3	AAB23572	Aab23572 Sodium ch
10	20	76.9	6	1	AAP81903	Aap81903 A second
11	20	76.9	7	2	AAW81790	Aaw81790 D. vivipa
12	20	76.9	8	5	ABB06417	Abb06417 Beta-secr
13	20	76.9	8	5	ABB06478	Abb06478 Beta-secr
14	20	76.9	8	5	ABB06472	Abb06472 Beta-secr
15	20	76.9	8	5	ABB06471	Abb06471 Beta-secr
16	20	76.9	8	5	ABB06473	Abb06473 Beta-secr
17	20	76.9	8	5	ABP62250	Abp62250 Human imm
18	20	76.9	9	6	ABP75300	Abp75300 Chlamydia
19	20	76.9	9	6	ABP68277	Abp68277 Bacillus
20	20	76.9	10	5	ABP61514	Abp61514 Human KRP
21	19	73.1	5	8	ADM09689	Adm09689 Human pro
22	19	73.1	5	8	ADR70855	Adr70855 Human pro
23	19	73.1	7	4	AAG79264	Aag79264 Peptide w
24	19	73.1	8	2	AAY48039	Aay48039 Immunogen
25	19	73.1	8	3	AAY69946	Aay69946 Human cyc
26	19	73.1	8	5	ABP62248	Abp62248 Human imm
27	19	73.1	8	5	AAE25221	Aae25221 S. hindus
28	19	73.1	8	7	ABW00681	Abw00681 Bleomycin
29	19	73.1	9	2	AAY46585	Aay46585 Immunogen
30	19	73.1	9	2	AAY47954	Aay47954 Immunogen
31	19	73.1	9	5	AAY48186	Aay48186 Immunogen
32	19	73.1	9	5	AAM49947	Aam49947 Human D40
33	19	73.1	9	8	ADN64374	Adn64374 HLA bindi
34	19	73.1	9	8	ADP26212	Adp26212 Plasmodiu
35	19	73.1	9	8	ADP25980	Adp25980 Plasmodiu
36	19	73.1	10	3	AAY69945	Aay69945 Human cyc
37	19	73.1	10	3	AAB14440	Aab14440 Sterile a
38	19	73.1	10	5	AAM49978	Aam49978 Human D40
39	19	73.1	10	5	AAM49782	Aam49782 Human KOC
40	18	69.2	6	2	AAR32379	Aar32379 Fibrinoge
41	18	69.2	6	2	AAR49792	Aar49792 Sequence
42	18	69.2	6	6	AAY43042	Aay43042 Safener b
43	18	69.2	6	7	ABR62945	Abr62945 HIV-1 vir
44	18	69.2	6	8	ADO37930	Ado37930 Binding p
45	18	69.2	6	8	ADO28452	Ado28452 Capture s

```
                          ALIGNMENTS

RESULT 1
ABU62026
ID    ABU62026 standard; peptide; 5 AA.
XX
AC    ABU62026;
XX
DT    26-AUG-2003  (first entry)
XX
DE    Human blood coagulation factor Va peptide, LSS.
XX
KW    Human; blood coagulation factor Va; blood clotting factor Va;
KW    prothrombinase inhibition; prothrombinase-inhibiting peptide;
KW    blood clotting disorder; thrombotic disorder; blood clot formation;
KW    blood vessel obstruction; coronary artery disease; unstable angina;
KW    valvular heart disease; stable angina; myocardial infarction;
KW    atrial fibrillation; stroke; blood anticoagulation; anticoagulant.
XX
OS    Homo sapiens.
XX
PN    US2003040600-A1.
XX
PD    27-FEB-2003.
XX
PF    23-JUL-2001; 2001US-00911129.
XX
PR    23-JUL-2001; 2001US-00911129.
XX
PA    (KALA/) KALAFATIS M.
PA    (MANN/) MANN K.
XX
PI    Kalafatis M, Mann K;
XX
DR    WPI; 2003-492177/46.
XX
PT    Novel anticoagulant peptide derived from the amino acid region 307-356 of
PT    human blood clotting factor Va, useful for preventing thrombotic
PT    disorders resulting from formation of blood clots that obstruct blood
PT    vessels.
XX
PS    Claim 10; Fig 2; 20pp; English.
XX
CC    The present invention relates to peptides derived from human blood
CC    coagulation (clotting) factor Va which exhibit inhibition of
CC    prothrombinase. A pharmaceutical composition comprising one or more of
CC    the prothrombinase-inhibiting peptides may be used for treating human
CC    subjects with blood clotting disorders. The peptides are useful for
CC    preventing thrombotic disorders resulting from the formation of blood
CC    clots that obstruct blood vessels, e.g. due to a condition chosen from
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102B(4ot)

App.

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CC   coronary artery disease, valvular heart disease, stable and unstable
CC   angina, myocardial infarction, atrial fibrillation and stroke. The
CC   peptides of the invention exhibit an IC50 of between 50 nanoM-500 microM
CC   for inhibition of prothrombinase. The peptides exhibit excellent blood
CC   anticoagulation properties with little or no adverse side effects. The
CC   present sequence represents a peptide that inhibits prothrombinase
CC   activity
XX
SQ   Sequence 5 AA;

Query Match             100.0%;  Score 26;  DB 6;  Length 5;
Best Local Similarity   100.0%;  Pred. No. 1.8e+06;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          1 LDNFS 5

RESULT 2
ADS64548
ID   ADS64548 standard; peptide; 5 AA.
XX
AC   ADS64548;
XX
DT   16-DEC-2004  (first entry)
XX
DE   Human blood coagulation factor Va peptide, L5S.
XX
KW   Prothrombinase inhibitor; human; blood coagulation factor Va;
KW   blood clotting disorder; thrombotic disorder; thrombolytic.
XX
OS   Homo sapiens.
XX
PN   US2004186271-A1.
XX
PD   23-SEP-2004.
XX
PF   08-MAR-2004; 2004US-00795795.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K G.
XX
PI   Kalafatis M, Mann KG;
XX
DR   WPI; 2004-689241/67.
XX
PT   New prothrombinase-inhibiting peptide derived from a specific amino acid
PT   sequence of human blood coagulation factor Va, useful for treating human
PT   subjects with blood clotting disorders.
XX
PS   Claim 10; SEQ ID NO 12; 20pp; English.
XX
CC   The present invention relates to a prothrombinase-inhibiting peptide
CC   derived from a specific amino acid sequence of human blood coagulation
CC   factor Va. The invention is useful for treating human subjects with blood
CC   clotting disorders. The invention is also useful for preventing
CC   thrombotic disorders resulting from formation of blood clots that
CC   obstructs blood vessels. The present sequence is the human blood
CC   coagulation factor Va peptide.
XX
SQ   Sequence 5 AA;

Query Match             100.0%;  Score 26;  DB 8;  Length 5;
Best Local Similarity   100.0%;  Pred. No. 1.8e+06;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          1 LDNFS 5


RESULT 3
ABU62025
ID   ABU62025 standard; peptide; 10 AA.
XX
AC   ABU62025;
XX
DT   26-AUG-2003  (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP9.
XX
KW   Human; blood coagulation factor Va; blood clotting factor Va;
KW   prothrombinase inhibition; prothrombinase-inhibiting peptide;
KW   blood clotting disorder; thrombotic disorder; blood clot formation;
KW   blood vessel obstruction; coronary artery disease; unstable angina;
KW   valvular heart disease; stable angina; myocardial infarction;
KW   atrial fibrillation; stroke; blood anticoagulation; anticoagulant.
XX
OS   Homo sapiens.
XX
PN   US2003040600-A1.
XX
PD   27-FEB-2003.
XX
PF   23-JUL-2001; 2001US-00911129.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K.
XX
PI   Kalafatis M, Mann K;
XX
DR   WPI; 2003-492177/46.
XX
PT   Novel anticoagulant peptide derived from the amino acid region 307-356 of
PT   human blood clotting factor Va, useful for preventing thrombotic
PT   disorders resulting from formation of blood clots that obstruct blood
PT   vessels.
XX
PS   Claim 10; Fig 2; 20pp; English.
XX
CC   The present invention relates to peptides derived from human blood
CC   coagulation (clotting) factor Va which exhibit inhibition of
CC   prothrombinase. A pharmaceutical composition comprising one or more of
CC   the prothrombinase-inhibiting peptides may be used for treating human
CC   subjects with blood clotting disorders. The peptides are useful for
CC   preventing thrombotic disorders resulting from the formation of blood
CC   clots that obstruct blood vessels, e.g. due to a condition chosen from
CC   coronary artery disease, valvular heart disease, stable and unstable
CC   angina, myocardial infarction, atrial fibrillation and stroke. The
CC   peptides of the invention exhibit an IC50 of between 50 nanoM-500 microM
CC   for inhibition of prothrombinase. The peptides exhibit excellent blood
CC   anticoagulation properties with little or no adverse side effects. The
CC   present sequence represents a peptide that inhibits prothrombinase
CC   activity
XX
SQ   Sequence 10 AA;

Query Match             100.0%;  Score 26;  DB 6;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 22;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          6 LDNFS 10

RESULT 4
ADS64547
ID   ADS64547 standard; peptide; 10 AA.
XX
AC   ADS64547;
```

XX
DT   16-DEC-2004 (first entry)
XX
DE   Human blood coagulation factor Va peptide, AP9.
XX
KW   Prothrombinase inhibitor; human; blood coagulation factor Va;
KW   blood clotting disorder; thrombotic disorder; thrombolytic.
XX
OS   Homo sapiens.
XX
PN   US2004186271-A1.
XX
PD   23-SEP-2004.
XX
PF   08-MAR-2004; 2004US-00795795.
XX
PR   23-JUL-2001; 2001US-00911129.
XX
PA   (KALA/) KALAFATIS M.
PA   (MANN/) MANN K G.
XX
PI   Kalafatis M, Mann KG;
XX
DR   WPI; 2004-689241/67.
XX
PT   New prothrombinase-inhibiting peptide derived from a specific amino acid
PT   sequence of human blood coagulation factor Va, useful for treating human
PT   subjects with blood clotting disorders.
XX
PS   Claim 10; SEQ ID NO 11; 20pp; English.
XX
CC   The present invention relates to a prothrombinase-inhibiting peptide
CC   derived from a specific amino acid sequence of human blood coagulation
CC   factor Va. The invention is useful for treating human subjects with blood
CC   clotting disorders. The invention is also useful for preventing
CC   thrombotic disorders resulting from formation of blood clots that
CC   obstructs blood vessels. The present sequence is the human blood
CC   coagulation factor Va peptide.
XX
SQ   Sequence 10 AA;

Query Match   100.0%; Score 26; DB 8; Length 10;
Best Local Similarity 100.0%;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LDNFS 5
        |||||
Db 6 LDNFS 10

RESULT 5
AAR66795
ID   AAR66795 standard; peptide; 7 AA.
XX
AC   AAR66795;
XX
DT   25-MAR-2003 (revised)
DT   11-SEP-1995 (first entry)
XX
DE   Mouse syndecan-1 heparan-attachment site sequence.
XX
KW   Cell surface; proteoglycan; syndecan; mouse; mammary; epithelial cell;
KW   ectodomain; NMuMG; glycosylation; heparan sulphate; chondroitin sulphate;
KW   chimaera; chimaeric molecule; effector molecule; receptor; drug;
KW   antibody; diagnostic agent.
XX
OS   Mus musculus.
XX
PN   WO9500633-A2.
XX
PD   05-JAN-1995.
XX
PF   17-JUN-1994; 94WO-US006920.

XX
PR   17-JUN-1993; 93US-00078683.
XX
PA   (CHIL-) CHILDRENS MEDICAL CENT.
PA   (STRD) UNIV LELAND STANFORD JUNIOR.
XX
PI   Saunders S, Bernfield M, Kato M;
XX
DR   WPI; 1995-052071/07.
XX
PT   DNA and protein sequences for recombinant syndecan-derived
PT   proteoglycan(s) - comprising a core protein having glycosylation sites
PT   for heparin sulphate glycosaminoglycan side chains.
XX
PS   Claim 4; Page 79; 97pp; English.
XX
CC   The sequence of the heparan sulphate attachment site of the mouse
CC   syndecan-1 protein. The sequence is found at position 45-48 of the
CC   complete syndecan-1 amino acid sequence (AAR66793). The sequence conforms
CC   to the generic attachment site sequence (AAR66794) based on amino acid
CC   sequence comparisons between syndecan 1-4 proteins. The glycosylation
CC   site is found in the extracellular domain of the protein. The functional
CC   domains, esp. the soluble extracellular or heparan binding site, of the
CC   construct chimaeras by linking them to biological effector molecules,
CC   cell surface receptors, drugs, antibodies, diagnostic agents or
CC   components of microorganisms. (Updated on 25-MAR-2003 to correct PN
CC   field.)
XX
SQ   Sequence 7 AA;

Query Match   84.6%; Score 22; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DNFS 5
        ||||
Db 1 DNFS 4

RESULT 6
AAY79016
ID   AAY79016 standard; peptide; 9 AA.
XX
AC   AAY79016;
XX
DT   05-JUN-2000 (first entry)
XX
DE   Urokinase receptor antagonist peptide AE113.
XX
KW   Antagonist; urokinase plasminogen activator; uPA; uPAR; cancer; plasmin;
KW   myeloid leukaemia; urokinase plasminogen activator receptor; plasminogen;
KW   malignant glioma gastric cancer; proteolysis.
XX
OS   Synthetic.
XX
FH   Key   Location/Qualifiers
FT   Misc-difference 4
FT   /note= "D form residue"
FT   Misc-difference 5
FT   /note= "D form residue"
XX
PN   WO200001802-A2.
XX
PD   13-JAN-2000.
XX
PR   01-JUL-1999; 99WO-DK000377.
XX
PR   01-JUL-1998; 98DK-00000874.
XX
PA   (CANC-) CANCERFORSKNINGSFONDET AF 1989.
XX
PI   Ploug M, Ostergaard S, Holm A, Holst-Hansen C, Stephens RW;

PI   Dano K;
XX
DR   WPI; 2000-171009/15.
XX
PT   New peptides that antagonize the urokinase receptor, used for treating cancer by preventing localized conversion of plasminogen to plasmin.
XX
PS   Disclosure; Page 51; 75pp; English.
XX
CC   This sequence represents a urokinase receptor (uPAR) antagonist peptide.
CC   The peptide inhibits the binding interaction between human urokinase
CC   plasminogen activator (uPA) and its cell surface receptor (uPAR).
CC   Preventing uPA binding to uPAR, reduces the ability of uPA to convert
CC   plasminogen to plasmin, this results in a reduction of localised
CC   proteolysis caused by plasmin. The peptides of the invention are used to
CC   treat cancer, particularly acute myeloid leukaemia, malignant gliomas and
CC   gastric cancer.
XX
SQ   Sequence 9 AA;

Query Match   84.6%; Score 22; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 DNFS 5
              ||||
Db   1 DNFS 4

RESULT 7
AAB10884
ID   AAB10884 standard; protein; 9 AA.
XX
AC   AAB10884;
XX
DT   26-JAN-2001 (first entry)
XX
DE   Human 9D7 protein immunogenic fragment SEQ ID NO: 43.
XX
KW   Tumor-associated antigen; 9D7; human; cytostatic; immunogenic;
KW   immunotherapy; cancer; cellular anticancer vaccine; diagnostic; kidney;
KW   lung; colon; breast; carcinoma; Hodgkin's lymphoma.
XX
OS   Homo sapiens.
XX
PN   DE19909503-A1.
XX
PD   07-SEP-2000.
XX
PF   04-MAR-1999; 99DE-01009503.
XX
PR   04-MAR-1999; 99DE-01009503.
XX
PA   (BOEH) BOEHRINGER INGELHEIM INT GMBH.
XX
PI   Klade C, Adolf G, Sommergruber W, Heider K;
XX
DR   WPI; 2000-588357/56.
XX
PT   New tumor-associated antigen 9D7, useful e.g. for producing diagnostic or therapeutic antibodies.
XX
PS   Claim 6; Page 40; 50pp; German.
XX
CC   This invention describes a novel tumor-associated antigen, designated 9D7
CC   which has cytostatic activity. The invention also describes a method for
CC   isolating (a) a polypeptide (I) that includes (S1) as part of its
CC   sequence; (b) an immunogenic protein fragment or peptide (II) derived
CC   from 9D7; (c) a pharmaceutical composition containing at least 1 of 9D7,
CC   (I) or (II) as active ingredients; (d) an isolated DNA (III) encoding a
CC   protein (IV) with the immunogenic properties of 9D7 or its fragments; (e)
CC   a recombinant DNA (IIIa) that includes (III); and (f) antibodies (Ab)
CC   directed against 9D7, (I) or (II). 9D7, or its derived immunogenic

CC   peptides, are used to induce a humoral and/or cellular response for use
CC   in in vivo or ex vivo immunotherapy of cancer. DNA (III) that encodes 9D7
CC   can be used similarly and cells that express 9D7 are useful in cellular
CC   anticancer vaccines. Antibodies (Ab) specific for 9D7 are useful for
CC   imaging, diagnosing and monitoring cancers, also, when conjugated to
CC   cytotoxins or radionuclide, as therapeutic agents. Peptides derived from
CC   9D7 may also be used diagnostically to test for an immune response. 9D7-
CC   associated cancers are particularly kidney, lung, colon and breast
CC   carcinoma and Hodgkin's lymphoma. AAB10874-B10899 represent immunogenic
CC   fragments of the human tumor-associated antigen 9D7 which is described in
CC   the method of the invention
XX
SQ   Sequence 9 AA;

Query Match   84.6%; Score 22; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
              |||
Db   2 LDNF 5

RESULT 8
AAM43099
ID   AAM43099 standard; peptide; 10 AA.
XX
AC   AAM43099;
XX
DT   22-OCT-2001 (first entry)
XX
DE   Mycoplasma genitalium intermolecular complementary peptide, SEQ ID 408.
XX
KW   Mycoplasma genitalium; complementary peptide; ligand;
KW   protein-protein interaction; drug design; intermolecular; intramolecular.
XX
OS   Mycoplasma genitalium.
XX
PN   WO20142278-A2.
XX
PD   14-JUN-2001.
XX
PF   13-DEC-2000; 2000WO-GB004778.
XX
PR   13-DEC-1999; 99GB-00029466.
XX
PA   (PROT-) PROTEOM LTD.
XX
PI   Roberts GW, Heal JR;
XX
DR   WPI; 2001-514238/56.
XX
PT   Complementary peptide ligands as reagents and drugs for drug discovery
PT   programs and as lead ligands to facilitate drug design and development,
PT   are generated from microbial genome sequences.
XX
PS   Example 2; Page 106; 161pp; English.
XX
CC   The present sequence is one of a large number of complementary peptide
CC   ligands generated from Mycoplasma genitalium genome sequences. These
CC   specific complementary peptides interact with their relevant target
CC   proteins encoded by the microbial genome. They are capable of
CC   antagonising or agonising specific interaction of a protein with another
CC   protein or receptor and are thus useful as reagents and drugs, and as
CC   lead ligands to facilitate drug design and development. They are useful
CC   as tools for functional genomic studies, reagents for the configuration
CC   of high-throughput screens, as a starting point for medicinal chemistry
CC   manipulation, for peptide mimetics and as therapeutic agents. The
CC   analysis and acquisition of peptide sequences facilitates understanding
CC   of protein-protein interactions. The method allows for analysis of an
CC   entire database at a time, thus overcoming sampling problems. The set of
CC   complementary peptides includes both intermolecular (between proteins)
CC   and intermolecular (within a protein) sequences

```
XX
SQ   Sequence 10 AA;

  Query Match        84.6%;   Score 22;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 1.9e+02;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    2 DNFS 5
        |||
Db    1 DNFS 4

RESULT 9
AAB23572
ID   AAB23572 standard; peptide; 10 AA.
XX
AC   AAB23572;
XX
DT   09-JAN-2001 (first entry)
XX
DE   Sodium channel epitope used to design PCR primer Na-3B.
XX
KW   Sodium channel 8A; SCN8A; human; excitatory cell.
XX
OS   Homo sapiens.
XX
PN   JP2000201684-A.
XX
PD   25-JUL-2000.
XX
PF   11-JAN-1999;   99JP-00004645.
XX
PR   11-JAN-1999;   99JP-00004645.
XX
PA   (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
DR   WPI; 2000-545978/50.
XX
PT   New sodium channel SCN8A useful for the elucidation physiological
PT   mechanism participated by excitatory cells.
XX
PS   Example; Fig 1; 14pp; Japanese.
XX
CC   This sequence represents an epitope fragment of various human sodium
CC   channel proteins. The sequence is used to design a PCR primer, which is
CC   used in the identification of a human sodium channel SCN8A encoding cDNA
CC   sequence. The invention provides the SCN8A encoding gene sequence,
CC   protein sequence, and an antibody against the sodium channel. The SCN8A
CC   protein alpha subunit and its encoding cDNA can be used in the
CC   elucidation of the physiological mechanisms of excitatory cells
XX
SQ   Sequence 10 AA;

  Query Match        80.8%;   Score 21;  DB 3;  Length 10;
  Best Local Similarity    60.0%;  Pred. No. 3.2e+02;
  Matches    3;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy    1 LDNFS 5
        :|||:
Db    5 IDNFN 9

RESULT 10
AAP81903
ID   AAP81903 standard; protein; 6 AA.
XX
AC   AAP81903;
XX
DT   25-MAR-2003 (revised)
DT   03-OCT-2002 (revised)
DT   11-OCT-1990 (first entry)
XX
DE   A second minor tryptic fragment derived from colon p40 OSN.
XX
KW   organ specific neoantigen (OSN); lung cancer; colon p40;
KW   leucocyte adherence inhibition.
XX
OS   Homo sapiens.
XX
PN   WO8800344-A.
XX
PD   14-JAN-1988.
XX
PF   02-JUL-1987;   87WO-US001595.
XX
PR   03-JUL-1986;   86US-00881887.
XX
PA   (BIRA ) BIO RAD LAB INC.
XX
PI   Walker RP,  Lamotte G,  Thomson DMP;
XX
DR   WPI; 1988-021672/03.
XX
PT   New peptide fragments reactive with organ specific neo:antigen - useful
PT   in leucocyte adherence inhibition tests for diagnosis and monitoring of
PT   cancer, and corresp. antibodies.
XX
PS   Claim 9; Page 50; 62pp; English.
XX
CC   Peptide was obtained following trypsin digestion of colon p40 OSN. The
CC   invention covers peptides having at least 80% homology with this peptide.
CC   See also AAP81585-P81599, AAP81900-2 and AAP81904-5 (Updated on 03-OCT-
CC   2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA
CC   field.)
XX
SQ   Sequence 6 AA;

  Query Match        76.9%;   Score 20;  DB 1;  Length 6;
  Best Local Similarity    75.0%;  Pred. No. 1.8e+06;
  Matches    3;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy    1 LDNF 4
        |:||
Db    1 IDNF 4

RESULT 11
AAW81790
ID   AAW81790 standard; peptide; 7 AA.
XX
AC   AAW81790;
XX
DT   27-AUG-2003 (revised)
DT   29-JAN-1999 (first entry)
XX
DE   D. viviparous DV17 antigen Lys C proteolytic peptide fragment #2.
XX
KW   DV17; antigen; lungworm; immunogenic protein; ELISA; antibody; cattle;
KW   enzyme linked immunosorbent assay; vaccine; dictyocauliasis.
XX
OS   Dictyocaulus viviparus.
XX
PN   DE19715586-A1.
XX
PD   22-OCT-1998.
XX
PF   15-APR-1997;   97DE-01015586.
XX
PR   15-APR-1997;   97DE-01015586.
XX
PA   (FARH ) HOECHST AG.
XX
PI   Hofmann J,  Schmid K,  Pauli A;
XX
DR   WPI; 1998-558238/48.
DR   N-PSDB; AAV64648.
```

```
XX
PT    New Dictyocaulis viviparus lungworm protein (DV17) - used in ELISA assay
PT    for DV17-specific antibodies and in vaccines against dictyocauliasis in
PT    cattle.
XX
PS    Claim 2; Page 9; 15pp; German.
XX
CC    This sequence represents a fragment of an immunogenic protein (DV17)
CC    isolated from adult Dictyocaulis viviparus lungworms and generated by Lys
CC    C proteolysis. The protein is used in an ELISA assay for DV17-specific
CC    antibodies and fragments of the protein can be used in vaccines against
CC    dictyocauliasis in cattle. (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ    Sequence 7 AA;

Query Match    76.9%;    Score 20;  DB 2;  Length 7;
Best Local Similarity    75.0%;    Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    1 LDNF 4
        :|||
Db    2 MDNF 5

RESULT 12
ABB06417
ID    ABB06417 standard; peptide; 8 AA.
XX
AC    ABB06417;
XX
DT    31-MAY-2002  (first entry)
XX
DE    Beta-secretase cleavage site peptide SEQ ID NO:11.
XX
KW    Beta-secretase; enzyme; cleavage site; amyloid protein precursor; APP;
KW    aspartyl protease; neuroprotective; nootropic; beta-secretase inhibitor;
KW    Alzheimer's disease.
XX
OS    Homo sapiens.
OS    Synthetic.
XX
PN    WO200206306-A2.
XX
PD    24-JAN-2002.
XX
PF    19-JUL-2001; 2001WO-US023035.
XX
PR    19-JUL-2000; 2000US-0219795P.
PR    12-MAR-2001; 2001US-0275251P.
XX
PA    (PHAA ) PHARMACIA & UPJOHN CO.
XX
PI    Yan R, Tomasselli AG, Gurney ME, Emmons TL, Bienkowski MJ;
PI    Heinrikson RL;
XX
DR    WPI; 2002-216995/27.
XX
PT    Novel substrates for human aspartyl protease useful for identifying
PT    modulators of beta secretase activity of aspartyl protease for treating
PT    Alzheimer's disease.
XX
PS    Claim 20; Page 123; 188pp; English.
XX
CC    The present invention describes an isolated peptide (I) comprising a
CC    sequence of at least four amino acids, where the peptide is a substrate
CC    for conducting aspartyl protease assays. (I) has neuroprotective and
CC    nootropic activities, and can be used as an inhibitor of beta-secretase
CC    activity. A beta-secretase modulator from the present invention can be
CC    used for inhibiting beta-secretase activity in vivo, and in the
CC    manufacture of a medicament for the treatment of Alzheimer's disease.
CC    Pharmaceutical compositions from the present invention can be used for
CC    treating a disease or condition characterised by an abnormal beta-
CC    secretase activity. (I) is useful for identifying agents that modulate
```

```
CC    the activity of human Asp2 aspartyl protease (Hu-Asp2). (I) is useful as
CC    a core structure to construct derivatives. ABL49914 to ABL49925 and
CC    ABB06409 to ABB06593 represent sequences used in the exemplification of
CC    the present invention
XX
SQ    Sequence 8 AA;

Query Match    76.9%;    Score 20;  DB 5;  Length 8;
Best Local Similarity    75.0%;    Pred. No. 1.8e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    1 LDNF 4
        :|||
Db    4 MDNF 7

RESULT 13
ABB06478
ID    ABB06478 standard; peptide; 8 AA.
XX
AC    ABB06478;
XX
DT    31-MAY-2002  (first entry)
XX
DE    Beta-secretase related peptide SEQ ID NO:72.
XX
KW    Beta-secretase; enzyme; cleavage site; amyloid protein precursor; APP;
KW    aspartyl protease; neuroprotective; nootropic; beta-secretase inhibitor;
KW    Alzheimer's disease.
XX
OS    Homo sapiens.
OS    Synthetic.
XX
PN    WO200206306-A2.
XX
PD    24-JAN-2002.
XX
PF    19-JUL-2001; 2001WO-US023035.
XX
PR    19-JUL-2000; 2000US-0219795P.
PR    12-MAR-2001; 2001US-0275251P.
XX
PA    (PHAA ) PHARMACIA & UPJOHN CO.
XX
PI    Yan R, Tomasselli AG, Gurney ME, Emmons TL, Bienkowski MJ;
PI    Heinrikson RL;
XX
DR    WPI; 2002-216995/27.
XX
PT    Novel substrates for human aspartyl protease useful for identifying
PT    modulators of beta secretase activity of aspartyl protease for treating
PT    Alzheimer's disease.
XX
PS    Disclosure; Page 140; 188pp; English.
XX
CC    The present invention describes an isolated peptide (I) comprising a
CC    sequence of at least four amino acids, where the peptide is a substrate
CC    for conducting aspartyl protease assays. (I) has neuroprotective and
CC    nootropic activities, and can be used as an inhibitor of beta-secretase
CC    activity. A beta-secretase modulator from the present invention can be
CC    used for inhibiting beta-secretase activity in vivo, and in the
CC    manufacture of a medicament for the treatment of Alzheimer's disease.
CC    Pharmaceutical compositions from the present invention can be used for
CC    treating a disease or condition characterised by an abnormal beta-
CC    secretase activity. (I) is useful for identifying agents that modulate
CC    the activity of human Asp2 aspartyl protease (Hu-Asp2). (I) is useful as
CC    a core structure to construct derivatives. ABL49914 to ABL49925 and
CC    ABB06409 to ABB06593 represent sequences used in the exemplification of
CC    the present invention
XX
SQ    Sequence 8 AA;

Query Match                    76.9%;  Score 20;  DB 5;  Length 8;
```

```
Best Local Similarity    75.0%;    Pred. No. 1.8e+06;
Matches   3;  Conservative   1; Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 LDNF 4
          :|||
Db      4 MDNF 7

RESULT 14
ABB06472
ID   ABB06472 standard; peptide; 8 AA.
XX
AC   ABB06472;
XX
DT   31-MAY-2002  (first entry)
XX
DE   Beta-secretase related peptide SEQ ID NO:66.
XX
KW   Beta-secretase; enzyme; cleavage site; amyloid protein precursor; APP;
KW   aspartyl protease; neuroprotective; nootropic; beta-secretase inhibitor;
KW   Alzheimer's disease.
XX
OS   Homo sapiens.
OS   Synthetic.
XX
PN   WO200206306-A2.
XX
PD   24-JAN-2002.
XX
PF   19-JUL-2001; 2001WO-US023035.
XX
PR   19-JUL-2000; 2000US-0219795P.
PR   12-MAR-2001; 2001US-0275251P.
XX
PA   (PHAA ) PHARMACIA & UPJOHN CO.
XX
PI   Yan R,  Tomasselli AG,  Gurney ME,  Emmons TL,  Bienkowski MJ;
PI   Heinrikson RL;
XX
DR   WPI; 2002-216995/27.
XX
PT   Novel substrates for human aspartyl protease useful for identifying
PT   modulators of beta secretase activity of aspartyl protease for treating
PT   Alzheimer's disease.
XX
PS   Disclosure; Page 138; 188pp; English.
XX
CC   The present invention describes an isolated peptide (I) comprising a
CC   sequence of at least four amino acids, where the peptide is a substrate
CC   for conducting aspartyl protease assays.  (I) has neuroprotective and
CC   nootropic activities, and can be used as an inhibitor of beta-secretase
CC   activity. A beta-secretase modulator from the present invention can be
CC   used for inhibiting beta-secretase activity in vivo, and in the
CC   manufacture of a medicament for the treatment of Alzheimer's disease.
CC   Pharmaceutical compositions from the present invention can be used for
CC   treating a disease or condition characterised by an abnormal beta-
CC   secretase activity. (I) is useful for identifying agents that modulate
CC   the activity of human Asp2 aspartyl protease (Hu-Asp2). (I) is useful as
CC   a core structure to construct derivatives. ABL49914 to ABL49925 and
CC   ABB06409 to ABB06593 represent sequences used in the exemplification of
CC   the present invention
XX
SQ   Sequence 8 AA;

Query Match             76.9%;  Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;    Pred. No. 1.8e+06;
Matches   3;  Conservative   1; Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 LDNF 4
          :|||
Db      4 MDNF 7


RESULT 15
ABB06471
ID   ABB06471 standard; peptide; 8 AA.
XX
AC   ABB06471;
XX
DT   31-MAY-2002  (first entry)
XX
DE   Beta-secretase related peptide SEQ ID NO:65.
XX
KW   Beta-secretase; enzyme; cleavage site; amyloid protein precursor; APP;
KW   aspartyl protease; neuroprotective; nootropic; beta-secretase inhibitor;
KW   Alzheimer's disease.
XX
OS   Homo sapiens.
OS   Synthetic.
XX
PN   WO200206306-A2.
XX
PD   24-JAN-2002.
XX
PF   19-JUL-2001; 2001WO-US023035.
XX
PR   19-JUL-2000; 2000US-0219795P.
PR   12-MAR-2001; 2001US-0275251P.
XX
PA   (PHAA ) PHARMACIA & UPJOHN CO.
XX
PI   Yan R,  Tomasselli AG,  Gurney ME,  Emmons TL,  Bienkowski MJ;
PI   Heinrikson RL;
XX
DR   WPI; 2002-216995/27.
XX
PT   Novel substrates for human aspartyl protease useful for identifying
PT   modulators of beta secretase activity of aspartyl protease for treating
PT   Alzheimer's disease.
XX
PS   Disclosure; Page 138; 188pp; English.
XX
CC   The present invention describes an isolated peptide (I) comprising a
CC   sequence of at least four amino acids, where the peptide is a substrate
CC   for conducting aspartyl protease assays.  (I) has neuroprotective and
CC   nootropic activities, and can be used as an inhibitor of beta-secretase
CC   activity. A beta-secretase modulator from the present invention can be
CC   used for inhibiting beta-secretase activity in vivo, and in the
CC   manufacture of a medicament for the treatment of Alzheimer's disease.
CC   Pharmaceutical compositions from the present invention can be used for
CC   treating a disease or condition characterised by an abnormal beta-
CC   secretase activity. (I) is useful for identifying agents that modulate
CC   the activity of human Asp2 aspartyl protease (Hu-Asp2). (I) is useful as
CC   a core structure to construct derivatives. ABL49914 to ABL49925 and
CC   ABB06409 to ABB06593 represent sequences used in the exemplification of
CC   the present invention
XX
SQ   Sequence 8 AA;

Query Match             76.9%;  Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;    Pred. No. 1.8e+06;
Matches   3;  Conservative   1; Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 LDNF 4
          :|||
Db      4 MDNF 7


Search completed: September 16, 2005, 11:53:53
Job time : 79.6667 secs
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Add (from 4352-756) 10023

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            GenCore version 5.1.6
   Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:        September 16, 2005, 11:46:13 ; Search time 15.6667 Seconds
                                  (without alignments)
                          30.707 Million cell updates/sec

Title:    US-10-795-795-12
Perfect score:    26
Sequence:    1 LDNFS 5
Scoring table:    BLOSUM62

Searched:    283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:    1102

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :    PIR_79:*
              1: pir1:*
              2: pir2:*
              3: pir3:*
              4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                        SUMMARIES
```

Result No.	# Score	Query Match	Length	DB	ID	Description
1	18	69.2	7	2	B44787	calliFMRFamide 11
2	18	69.2	10	2	C44787	calliFMRFamide 12
3	17	65.4	10	2	S27178	neurokinin A-relat
4	16	61.5	8	2	A44960	neuropeptide Led-C
5	16	61.5	8	2	A61348	red pigment-concen
6	16	61.5	8	2	S08995	hypertrehalosemic
7	16	61.5	8	2	A49823	adipokinetic hormo
8	16	61.5	8	2	A28004	adipokinetic hormo
9	16	61.5	8	2	A43976	hypertrehalosemic
10	16	61.5	8	2	B43976	hypertrehalosemic
11	16	61.5	8	2	A05169	neuropeptide M-I -
12	16	61.5	9	2	S19523	orf AB protein - S
13	16	61.5	10	2	S08997	hypertrehalosemic
14	16	61.5	10	2	A60421	hypertrehalosemic
15	16	61.5	10	2	S08998	hypertrehalosemic
16	16	61.5	10	2	A26381	hypertrehalosemic
17	16	61.5	10	2	S53789	neuropeptide Pec-H
18	15	57.7	10	2	PN0136	pepsin (EC 3.4.23.
19	15	57.7	10	2	PT0284	Ig heavy chain CRD
20	14	53.8	10	2	S70251	nitrogenase (EC 1.
21	14	53.8	5	2	PT0281	Ig heavy chain CRD
22	13	50.0	8	2	A58620	adipokinetic hormo
23	13	50.0	8	2	S55310	adipokinetic hormo
24	13	50.0	8	2	S10596	adipokinetic hormo
25	13	50.0	8	2	S15422	adipokinetic hormo
26	13	50.0	8	2	A58641	adipokinetic hormo
27	13	50.0	8	2	PL0184	capsid protein VP-
28	13	50.0	8	2	PC4131	hypothetical prote
29	13	50.0	8	2	S11078	glucose-6-phosphat
30	13	50.0	8	2	S21663	neuropeptide - flo
31	13	50.0	8	2	A14683	aspartate transami
32	13	50.0	9	2	PT0315	Ig heavy chain CRD
33	13	50.0	9	2	PT0562	T-cell receptor be
34	13	50.0	9	2	S10784	enamelin i - bovin
35	13	50.0	10	2	JN0024	neurokinin A - chi
36	13	50.0	10	2	A47593	mercury resistance
37	13	50.0	10	2	S18396	probable glucose-6
38	13	50.0	10	2	E44644	neurotoxin-associa
39	13	50.0	10	2	A58365	neuropeptide FFRFa
40	13	50.0	10	2	B61033	ranatachykinin B -
41	12	46.2	4	2	A41890	protein D - Escher
42	12	46.2	6	2	D41654	hypothetical prote
43	12	46.2	6	2	A43129	neuropeptide GNFFR
44	12	46.2	7	2	S16364	opacity protein P.
45	12	46.2	7	2	S16365	opacity protein P.

                        ALIGNMENTS

```
RESULT 1
B44787
calliFMRFamide 11 - bluebottle fly (Calliphora vomitoria)
C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: B44787
R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe,
Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi
A;Reference number: A41978; MUID:9219611I; PMID:1549595
A;Accession: B44787
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-7 <DUV>
A;Cross-references: UNIPROT:P41866
C;Keywords: amidated carboxyl end; neuropeptide
F;7/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match                  69.2%;   Score 18;   DB 2;   Length 7;
Best Local Similarity   100.0%;   Pred. No. 2.8e+05;
Matches      3;   Conservative      0;   Mismatches      0;   Indels      0;   Gaps      0;

Qy      2 DNF 4
          | | |
Db      2 DNF 4

RESULT 2
C44787
calliFMRFamide 12 - bluebottle fly (Calliphora vomitoria)
C;Species: Calliphora vomitoria
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: C44787
R;Duve, H.; Johnsen, A.H.; Sewell, J.C.; Scott, A.G.; Orchard, I.; Rehfeld, J.F.; Thorpe
Proc. Natl. Acad. Sci. U.S.A. 89, 2326-2330, 1992
A;Title: Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH-2 neuropeptides (desi
A;Reference number: A41978; MUID:9219611I; PMID:1549595
A;Accession: C44787
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <DUV>
A;Cross-references: UNIPROT:P41867
C;Keywords: amidated carboxyl end; neuropeptide
F;10/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match                  69.2%;   Score 18;   DB 2;   Length 10;
Best Local Similarity   100.0%;   Pred. No. 2.6e+02;
Matches      3;   Conservative      0;   Mismatches      0;   Indels      0;   Gaps      0;

Qy      2 DNF 4
          | | |
Db      5 DNF 7
```

RESULT 3
S27178
neurokinin A-related peptide - laughing frog
C;Species: Rana ridibunda (laughing frog)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 16-Aug-2004
C;Accession: S27178
R;Wang, Y.; Badgery-Parker, T.; Lovas, S.; Chartrel, N.; Vaudry, H.; Burcher, E.; Conlon
Biochem. J. 287, 827-832, 1992
A;Title: Primary structure and receptor-binding properties of a neurokinin A-related pep
A;Reference number: S27178; MUID:93075037; PMID:1332683
A;Accession: S27178
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <WAN>
A;Cross-references: UNIPROT:P29135

Query Match   65.4%;   Score 17; DB 2; Length 10;
Best Local Similarity   75.0%;   Pred. No. 4.5e+02;
  Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
            || :|
Db   3 LDSF 6

RESULT 4
A44960
neuropeptide Led-CC-I - Colorado potato beetle
C;Species: Leptinotarsa decemlineata (Colorado potato beetle)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: A44960
R;Gaede, G.; Kellner, R.
Peptides 10, 1287-1289, 1989
A;Title: The metabolic neuropeptides of the corpus cardiacum from the potato beetle and
A;Reference number: A44960; MUID:90160053; PMID:2576128
A;Accession: A44960
A;Molecule type: protein
A;Residues: 1-8 <GAE>
A;Cross-references: UNIPROT:P04548
C;Superfamily: adipokinetic hormone
C;Keywords: blocked carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: blocked carboxyl end (Trp) (probably amidated) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity   100.0%;   Pred. No. 2.8e+05;
  Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
            |||
Db   3 NFS 5

RESULT 5
A61348
red pigment-concentrating hormone - northern shrimp
N;Alternate names: blanching hormone
C;Species: Pandalus borealis (northern shrimp)
C;Date: 02-Aug-1994 #sequence_revision 05-Aug-1994 #text_change 09-Jul-2004
C;Accession: A61348; S07139
R;Fernlund, P.; Josefsson, L.
Science 177, 173-175, 1972
A;Title: Crustacean color-change hormone: amino acid sequence and chemical synthesis.
A;Reference number: A61348; MUID:72228738; PMID:5041363
A;Accession: A61348
A;Molecule type: protein
A;Residues: 1-8 <FER1>
A;Cross-references: UNIPROT:P08939
R;Fernlund, P.
Biochim. Biophys. Acta 371, 304-311, 1974
A;Title: Structure of the red-pigment-concentrating hormone of the shrimp, Pandalus bore

---

A;Reference number: S07139; MUID:75054965; PMID:4433569
A;Accession: S07139
A;Molecule type: protein
A;Residues: 7F',2-8 <FER2>
A;Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C;Comment: This neuropeptide, isolated from the eyestalks of the shrimp and active in pig
zed pigment-containing cells.
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; blocked amino end; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity   100.0%;   Pred. No. 2.8e+05;
  Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
            |||
Db   3 NFS 5

RESULT 6
S08995
hypertrehalosaemic hormone I - oriental cockroach
N;Alternate names: Pea-CAH-I
C;Species: Blatta orientalis (oriental cockroach)
C;Date: 30-Jun-1992 #sequence_revision 24-Oct-1997 #text_change 09-Jul-2004
C;Accession: S08995
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosaemic neuropeptides isolated from the corpora
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardm
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S08995
A;Molecule type: protein
A;Residues: 1-8 <GAE>
A;Cross-references: UNIPROT:P04548
A;Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity   100.0%;   Pred. No. 2.8e+05;
  Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
            |||
Db   3 NFS 5

RESULT 7
A49823
adipokinetic hormone I - American cockroach
N;Alternate names: periplanetin CC-1
C;Species: Periplaneta americana (American cockroach)
C;Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C;Accession: A49823
R;Scarborough, R.M.; Jamieson, G.C.; Kalish, F.; Kramer, S.J.; McEnroe, G.A.; Miller, C.J.
Proc. Natl. Acad. Sci. U.S.A. 81, 5575-5579, 1984
A;Title: Isolation and primary structure of two peptides with cardioacceleratory and hype
A;Reference number: A49823; MUID:84298179; PMID:6591205
A;Accession: A49823
A;Molecule type: protein
A;Residues: 1-8 <SCA>
A;Cross-references: UNIPROT:P04548
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    3 NFS 5
        |||
Db    3 NFS 5
```

RESULT 8
A28004
adipokinetic hormone G - two-spotted cricket
N;Alternate names: AKH-G
C;Species: Gryllus bimaculatus (two-spotted cricket)
C;Date: 30-Jun-1989 #sequence_revision 24-Oct-1997 #text_change 09-Jul-2004
C;Accession: A28004
R;Gaede, G.; Rinehart, K.L.
Biochem. Biophys. Res. Commun. 149, 908-914, 1987
A;Title: Primary sequence analysis by fast atom bombardment mass spectrometry of a pepti
A;Reference number: A28004; MUID:88106553; PMID:3426616
A;Accession: A28004
A;Molecule type: protein
A;Residues: 1-8 <GAE>
A;Cross-references: UNIPROT:P14086
A;Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

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Qy    3 NFS 5
        |||
Db    3 NFS 5
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RESULT 9
A43976
hypertrehalosemic hormone - yellow mealworm
C;Species: Tenebrio molitor (yellow mealworm)
C;Date: 03-Feb-1993 #sequence_revision 03-Feb-1993 #text_change 09-Jul-2004
C;Accession: A43976
R;Gaede, G.; Rosinski, G.
Peptides 11, 455-459, 1990
A;Title: The primary structure of the hypertrehalosemic neuropeptide from tenebrionid be
A;Reference number: A43976; MUID:90341081; PMID:2381871
A;Accession: A43976
A;Molecule type: protein
A;Residues: 1-8 <GAE>
A;Cross-references: UNIPROT:P25419
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

```
Qy    3 NFS 5
        |||
Db    3 NFS 5
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RESULT 10
B43976
hypertrehalosemic hormone - beetle (Zophobas rugipes)
C;Species: Zophobas rugipes
C;Date: 03-Feb-1993 #sequence_revision 03-Feb-1993 #text_change 09-Jul-2004
C;Accession: B43976
R;Gaede, G.; Rosinski, G.
Peptides 11, 455-459, 1990
A;Title: The primary structure of the hypertrehalosemic neuropeptide from tenebrionid be
A;Reference number: A43976; MUID:90341081; PMID:2381871
A;Accession: B43976
A;Molecule type: protein
A;Residues: 1-8 <GAE>
A;Cross-references: UNIPROT:P25419
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

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Qy    3 NFS 5
        |||
Db    3 NFS 5
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RESULT 11
A05169
neuropeptide M-I - American cockroach
C;Species: Periplaneta americana (American cockroach)
C;Date: 05-Jun-1987 #sequence_revision 05-Jun-1987 #text_change 09-Jul-2004
C;Accession: A05169
R;Witten, J.L.; Schaffer, M.H.; O'Shea, M.; Cook, J.C.; Hemling, M.E.; Rinehart Jr., K.L
Biochem. Biophys. Res. Commun. 124, 350-358, 1984
A;Title: Structures of two cockroach neuropeptides assigned by fast atom bombardment mas:
A;Reference number: A90118; MUID:85046530; PMID:6548628
A;Accession: A05169
A;Molecule type: protein
A;Residues: 1-8 <WIT>
A;Cross-references: UNIPROT:P04548
C;Keywords: neuropeptide

Query Match   61.5%;   Score 16; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

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Qy    3 NFS 5
        |||
Db    3 NFS 5
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RESULT 12
S19523
orf AB protein - Shigella dysenteriae insertion sequence IS911
C;Species: Shigella dysenteriae
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004
C;Accession: S19523
R;Polard, P.; Prere, M.F.; Chandler, M.; Fayet, O.
J. Mol. Biol. 222, 465-477, 1991
A;Title: Programmed translational frameshifting and initiation at an AUU codon in gene e
A;Reference number: S19523; MUID:92085268; PMID:1660923
A;Accession: S19523
A;Molecule type: protein
A;Residues: 1-9 <POL>
A;Cross-references: UNIPROT:Q9R5R1
C;Genetics:
A;Mobile element: insertion sequence IS911

Query Match   61.5%;   Score 16; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   3; Conservative   0; Mismatches 0; Indels 0; Gaps 0;

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Qy    3 NFS 5
        |||
Db    5 NFS 7
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RESULT 13

S08997
hypertrehalosemic neuropeptide Bld-HrTH - cockroach (Gromphadorina portentosa)
C;Species: Gromphadorina portentosa
C;Date: 30-Jun-1992 #sequence_revision 14-Sep-1994 #text_change 09-Jul-2004
C;Accession: S08997
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosaemic neuropeptides isolated from the corpo
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombard
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S08997
A;Molecule type: protein
A;Residues: 1-10 <GAE>
A;Cross-references: UNIPROT:P10939
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match   61.5%; Score 16; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
          |||
Db   3 NFS 5

RESULT 14
A60421
hypertrehalosemic hormone - German cockroach
N;Alternate names; Bld-HrTH
C;Species: Blattella germanica (German cockroach)
C;Date: 03-Feb-1993 #sequence_revision 03-Feb-1993 #text_change 09-Jul-2004
C;Accession: A60421; S09137
R;Veenstra, J.A.; Camps, F.
Neuropeptides 15, 107-109, 1990
A;Title: Structure of the hypertrehalosaemic neuropeptide of the German cockroach, Blatte
A;Reference number: A60421; MUID:91179584; PMID:2080017
A;Accession: A60421
A;Molecule type: protein
A;Residues: 1-10 <VEB>
A;Cross-references: UNIPROT:P10939
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosaemic neuropeptides isolated from the corpo
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombard
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S09137
A;Molecule type: protein
A;Residues: 1-10 <GAE>
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match   61.5%; Score 16; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
          |||
Db   3 NFS 5

RESULT 15
S08998
hypertrehalosemic neuropeptide Bld-HrTH - Madeira cockroach
C;Species: Leucophaea maderae (Madeira cockroach)
C;Date: 30-Jun-1992 #sequence_revision 14-Sep-1994 #text_change 09-Jul-2004
C;Accession: S08998
R;Gaede, G.; Rinehart, K.L.
Biol. Chem. Hoppe-Seyler 371, 345-354, 1990
A;Title: Primary structures of hypertrehalosaemic neuropeptides isolated from the corpo
entalis and of the stick insect Extatosoma tiaratum assigned by tandem fast atom bombardn
A;Reference number: S08995; MUID:90253659; PMID:2340112
A;Accession: S08998
A;Molecule type: protein
A;Residues: 1-10 <GAE>
A;Cross-references: UNIPROT:P10939
C;Superfamily: adipokinetic hormone
C;Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Thr) #status experimental

Query Match   61.5%; Score 16; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.8e+02;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
          |||
Db   3 NFS 5

Search completed: September 16, 2005, 11:58:33
Job time : 15.6667 secs

```
            GenCore version 5.1.6
     Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:      September 16, 2005, 11:46:13 ; Search time 31.3333 Seconds
                                            (without alignments)
                                            30.707 Million cell updates/sec

Title:          US-10-795-795-6
Perfect score:  55
Sequence:       1 WEYFIAAEEV 10

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5

Searched:       283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:          1102

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       PIR_79:*
                 1: piri:*
                 2: pir2:*
                 3: pir3:*
                 4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                       SUMMARIES
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Result No.	Score	% Query Match	Length	DB	ID	Description
1	20	36.4	8	2	A59495	Vesicle associated
2	20	36.4	9	2	PT0299	Ig heavy chain CRD
3	20	36.4	9	2	D57444	neuropeptide Grb-A
4	19	34.5	9	2	S68325	blood cell protein
5	18	32.7	9	2	A43848	cell surface adhes
6	18	32.7	10	1	RHPGG	gonadoliberin - pi
7	18	32.7	10	1	RHSHG	gonadoliberin - sh
8	18	32.7	10	1	RHAQ1	gonadoliberin I -
9	18	32.7	10	2	A21114	gonadoliberin - ch
10	17	30.9	10	2	A40753	aldehyde ferredoxi
11	16	29.1	5	2	PT0308	Ig heavy chain CRD
12	16	29.1	6	2	S66195	alcohol dehydrogen
13	16	29.1	6	2	A31263	dihydrofolate redu
14	16	29.1	6	2	B31263	dihydrofolate redu
15	16	29.1	6	2	B35640	cerebellar degener
16	16	29.1	6	2	C61512	variant surface gl
17	16	29.1	8	2	D61512	variant surface gl
18	16	29.1	8	2	A59028	MHC class I histoc
19	16	29.1	9	2	IS8350	gene c-mpl protein
20	16	29.1	10	2	B33995	hypottrehalosemic h
21	16	29.1	10	2	S59625	beta-galactosidase
22	16	29.1	10	2	S63696	DNA polymerase - y
23	16	29.1	10	2	B49033	T-cell receptor ga
24	16	29.1	10	2	P49033	T-cell receptor ga
25	15	27.3	9	2	C60070	gastrin - domestic
26	15	27.3	10	2	S39392	calpain (EC 3.4.22
27	15	27.3	10	2	PT0215	T-cell receptor be
28	15	27.3	10	2	S68033	cytochrome P450 1A
29	14	25.5	7	2	A38081	amine oxidase (cop
30	14	25.5	7	2	S17976	glucose isomerase
31	14	25.5	9	2	D24180	fibrinogen beta ch
32	14	25.5	9	2	S70332	endosperm protein,
33	14	25.5	10	1	SPPGNK	neuromedin K - pig
34	13	23.6	5	2	PT0278	Ig heavy chain CRD
35	13	23.6	5	2	PT0580	T-cell receptor be
36	13	23.6	6	2	PT0519	T-cell receptor be
37	13	23.6	7	2	PS0254	18K protein 5507 -
38	13	23.6	7	2	S45648	Na+-transporting A
39	13	23.6	7	2	A25269	sex pheromone cAM3
40	13	23.6	8	2	B45800	serum albumin - do
41	13	23.6	8	2	A38887	T-cell receptor ga
42	13	23.6	8	2	B27867	homeotic protein U
43	13	23.6	9	1	AKLQIM	locustamyoinhibiti
44	13	23.6	9	2	D58503	translation elonga
45	13	23.6	9	2	S66608	quinoline 2-oxidor

```
                       ALIGNMENTS

RESULT 1
A59495
Vesicle associated membrane protein - Mus musculus
C;Species: Mus musculus
C;Date: 04-Apr-2004 #sequence_revision 04-Apr-2004 #text_change 04-Apr-2004
C;Accession: A59495
R;Brahmaraju, M.; Shoeb, M.; Laloraya, M.; Kumar, P.
submitted to the Protein Sequence Database, March 2004
A;Description: Spatio-temporal organization of Vam6P and SNAP on mouse spermatozoa and t
A;Reference number: A59495
A;Accession: A59495
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-8 <KUM>
A;Experimental source: strain Swiss
A;Note: Soluble N-ethylmaleimide-sensitive factor-attachment protein receptor (SNARE) pro
trafficking through the formation of complexes between proteins present on vesicle and t

Query Match            36.4%;  Score 20;  DB 2;  Length 8;
Best Local Similarity  42.9%;  Pred. No. 2.8e+05;
Matches  3;  Conservative  2;  Mismatches  2;  Indels  0;  Gaps  0;

Qy     1 WEYFIAA 7
         || |:: |
Db     2 WEEWLLA 8


RESULT 2
PT0299
Ig heavy chain CRD3 region (clone 5-103B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and j
A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0299
A;Molecule type: DNA
A;Residues: 1-9 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match            36.4%;  Score 20;  DB 2;  Length 9;
Best Local Similarity  66.7%;  Pred. No. 2.8e+05;
Matches  2;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

Qy     1 WEY 3
         |:|
Db     4 WDY 6
```

RESULT 3
D57444
neuropeptide Grb-AST B4 - two-spotted cricket
C;Species: Gryllus bimaculatus (two-spotted cricket)
C;Date: 26-Jan-1996 #sequence_revision 26-Jan-1996 #text_change 09-Jul-2004
C;Accession: D57444
R;Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
J. Biol. Chem. 270, 21103-21108, 1995
A;Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis in the cri
A;Reference number: A57444; MUID:95403341; PMID:7673141
A;Accession: D57444
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <LOR>
A;Cross-references: UNIPROT:Q7M3N6

Query Match   36.4%;   Score 20; DB 2; Length 9;
Best Local Similarity   75.0%;   Pred. No. 2.8e+05;
Matches   3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 WEYF 4
          |||
Db   2 WERF 5

RESULT 4
S68325
blood cell protein A8 - Ascidia ceratodes (fragment)
N;Alternate names: Abcp-A
C;Species: Ascidia ceratodes
C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 09-Jul-2004
C;Accession: S68325
R;Taylor, S.W.; Ross, M.M.; Waite, J.H.
Arch. Biochem. Biophys. 324, 228-240, 1995
A;Title: Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing polypeptides from th
A;Reference number: S68325; MUID:96132650; PMID:8554314
A;Accession: S68325
A;Molecule type: protein
A;Residues: 1-8 <TAY>
A;Cross-references: UNIPROT:Q7M3L7
F;2,3,4/Modified site: 3',4',5'-trihydroxyphenylalanine (Tyr) #status experimental

Query Match   34.5%;   Score 19; DB 2; Length 8;
Best Local Similarity   50.0%;   Pred. No. 2.8e+05;
Matches   3; Conservative 0; Mismatches 2; Indels 1; Gaps 0;

Qy   2 EYFIAA 7
         :|: ||
Db   1 DYYYAA 6

RESULT 5
A43848
cell surface adhesin for heparan sulfate, 66K - Staphylococcus aureus (fragment)
C;Species: Staphylococcus aureus
C;Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A43848
R;Liang, O.D.; Ascencio, F.; Fransson, L.A.; Wadstrom, T.
Infect. Immun. 60, 899-906, 1992
A;Title: Binding of heparan sulfate to Staphylococcus aureus.
A;Reference number: A43848; MUID:92176005; PMID:1541563
A;Accession: A43848
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-9 <LIA>
A;Cross-references: UNIPROT:Q9R5M1
A;Note: sequence extracted from NCBI backbone (NCBIP:85442)

Query Match   32.7%;   Score 18; DB 2; Length 9;
Best Local Similarity   42.9%;   Pred. No. 2.8e+05;
Matches   3; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy   1 WEYFIAA 7

Db | ::||
      2 WTGWLAA 8

RESULT 6
RHPGG
gonadoliberin - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 13-Jul-1981 #sequence_revision 13-Jul-1981 #text_change 18-Mar-1997
C;Accession: A01411
R;Baba, Y.; Matsuo, H.; Schally, A.V.
Biochem. Biophys. Res. Commun. 44, 459-463, 1971
A;Title: Structure of the porcine LH- and FSH-releasing hormone. II. Confirmation of the
A;Reference number: A90172; MUID:72114303; PMID:4946067
A;Accession: A01411
A;Molecule type: protein
A;Residues: 1-10 <BAB>
R;Matsuo, H.; Arimura, A.; Nair, R.M.G.; Schally, A.V.
Biochem. Biophys. Res. Commun. 45, 822-827, 1971
A;Title: Synthesis of the porcine LH- and FSH-releasing hormone by the solid-phase method
A;Reference number: A90176; MUID:72065376; PMID:4942726
A;Contents: annotation; synthesis
A;Note: the synthetic and natural hormones have the same physicochemical and biological [
R;Baba, Y.; Arimura, A.; Schally, A.V.
Biochem. Biophys. Res. Commun. 45, 483-487, 1971
A;Title: On the tryptophan residue in porcine LH and FSH-releasing hormone.
A;Reference number: A90175; MUID:72117544; PMID:4946275
A;Contents: annotation
A;Note: Trp-3 appears to be essential for biological activity
C;Comment: This hypothalamic hormone stimulates the secretion of both luteinizing and fol
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; hormone; hypothalamus; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match   32.7%;   Score 18; DB 1; Length 10;
Best Local Similarity   66.7%;   Pred. No. 2.2e+03;
Matches   2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 WEY 3
         |||
Db   3 WSY 5

RESULT 7
RHSHG
gonadoliberin - sheep
C;Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 #text_change 18-Mar-1997
C;Accession: A93780; A01411
R;Burgus, R.; Butcher, M.; Amoss, M.; Ling, N.; Monahan, M.; Rivier, J.; Fellows, R.; Bl
Proc. Natl. Acad. Sci. U.S.A. 69, 278-282, 1972
A;Title: Primary structure of the ovine hypothalamic luteinizing hormone-releasing factor
A;Reference number: A93780; MUID:72094314; PMID:4550508
A;Accession: A93780
A;Molecule type: protein
A;Residues: 1-10 <BUR>
A;Note: the natural and synthetic hormones have the same biological activity
C;Comment: This hypothalamic hormone stimulates the secretion of both luteinizing and fol
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; hormone; hypothalamus; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match   32.7%;   Score 18; DB 1; Length 10;
Best Local Similarity   66.7%;   Pred. No. 2.2e+03;
Matches   2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 WEY 3
         |||
Db   3 WSY 5

RESULT 8
RHAQ1
gonadoliberin I - American alligator
N;Alternate names: gonadotropin-releasing hormone I
C;Species: Alligator mississippiensis (American alligator)
C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
C;Accession: A60066
R;LoveJoy, D.A.; Fischer, W.H.; Parker, D.B.; McRory, J.E.; Park, M.; Lance, V.; Swanson
Regul. Pept. 33, 105-116, 1991
A;Title: Primary structure of two forms of gonadotropin-releasing hormone from brains of
A;Reference number: A60066; MUID:91352338; PMID:1882082
A;Accession: A60066
A;Molecule type: protein
A;Residues: 1-10 <LOV>
A;Cross-references: UNIPROT:P37041
C;Superfamily: gonadoliberin
C;Keywords: amidated carboxyl end; hormone; hypothalamus; pyroglutamic acid
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;10/Modified site: amidated carboxyl end (Gly) #status experimental

Query Match 32.7%; Score 18; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 WEY 3
       | |
Db 3 WSY 5

RESULT 9
A21114
gonadoliberin - chum salmon
C;Species: Oncorhynchus keta (chum salmon)
C;Date: 10-Aug-1990 #sequence_revision 10-Aug-1990 #text_change 09-Jul-2004
C;Accession: A21114
R;Sherwood, N.; Eiden, L.; Brownstein, M.; Spiess, J.; Rivier, J.; Vale, W.
Proc. Natl. Acad. Sci. U.S.A. 80, 2794-2798, 1983
A;Title: Characterization of a teleost gonadotropin-releasing hormone.
A;Reference number: A21114; MUID:83195140; PMID:6341999
A;Accession: A21114
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <SHE>
A;Cross-references: UNIPROT:P20367

Query Match 32.7%; Score 18; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 WEY 3
       | |
Db 3 WSY 5

RESULT 10
A40753
aldehyde ferredoxin oxidoreductase (EC 1.2.7.-) - Pyrococcus furiosus (fragment)
N;Alternate names: glyceraldehyde:ferredoxin oxidoreductase; red tungsten protein (RTP)
C;Species: Pyrococcus furiosus
C;Date: 21-Apr-1992 #sequence_revision 21-Apr-1992 #text_change 09-Jul-2004
C;Accession: A40753
R;Mukund, S.; Adams, M.W.W.
J. Biol. Chem. 266, 14208-14216, 1991
A;Title: The novel tungsten-iron-sulfur protein of the hyperthermophilic archaebacterium
colytic pathway.
A;Reference number: A40753; MUID:91317766; PMID:1907273
A;Accession: A40753
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-10 <MUK>
A;Cross-references: UNIPROT:Q7M530
C;Keywords: iron-sulfur protein; oxidoreductase; tungsten

Query Match 30.9%; Score 17; DB 2; Length 10;
Best Local Similarity 60.0%; Pred. No. 3.4e+03;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WEYPI 5
       |
Db 5 WGRFI 9

RESULT 11
PTO308
Ig heavy chain CRD3 region (clone 6-88) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996
C;Accession: PTO308
R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and j
A;Reference number: PTO222; MUID:91108337; PMID:1899102
A;Accession: PTO308
A;Molecule type: DNA
A;Residues: 1-5 <YAM>
A;Experimental source: B lymphocyte
C;Keywords: heterotetramer; immunoglobulin

Query Match 29.1%; Score 16; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WE 2
       | |
Db 2 WE 3

RESULT 12
S66195
alcohol dehydrogenase (EC 1.1.1.1) class III low affinity form - cod (Gadus sp.) (fragmen
C;Species: Gadus sp. (cod)
C;Date: 19-Mar-1997 #sequence_revision 29-Aug-1997 #text_change 12-Jun-1998
C;Accession: S66195
R;Hjelmqvist, L.; Hackett, M.; Shafqat, J.; Danielsson, O.; Iida, J.; Hendrickson, R.C.;
FEBS Lett. 367, 237-240, 1995
A;Title: Multiplicity of N-terminal structures of medium-chain alcohol dehydrogenases. M
nzyme.
A;Reference number: S66191; MUID:95331382; PMID:7607314
A;Accession: S66195
A;Molecule type: protein
A;Residues: 1-6 <HJE>
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
C;Keywords: alcohol metabolism; NAD; oxidoreductase

Query Match 29.1%; Score 16; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WE 2
       | |
Db 5 WE 6

RESULT 13
A31263
dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC 2.1.1.45) - Plasmodium falciparum
C;Species: Plasmodium falciparum
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 20-Mar-1996
C;Accession: A31263
R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase c
A;Reference number: A94217; MUID:89057886; PMID:2904149
A;Accession: A31263
A;Status: not compared with conceptual translation
A;Molecule type: DNA

A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase

Query Match   29.1%; Score 16; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   2; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WE 2
        | |
Db   3 WE 4

RESULT 14
B31263
dihydrofolate reductase (EC 1.5.1.3) / thymidylate synthase (EC 2.1.1.45) - Plasmodium f
C;Species: Plasmodium falciparum
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 20-Mar-1996
C;Accession: B31263
R;Peterson, D.S.; Walliker, D.; Wellems, T.E.
Proc. Natl. Acad. Sci. U.S.A. 85, 9114-9118, 1988
A;Title: Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase
A;Reference number: A94217; MUID:89057886; PMID:2904149
A;Accession: B31263
A;Status: not compared with conceptual translation
A;Molecule type: DNA
A;Residues: 1-6 <PET>
C;Keywords: methyltransferase; NADP; oxidoreductase

Query Match   29.1%; Score 16; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   2; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WE 2
        | |
Db   3 WE 4

RESULT 15
B35640
cerebellar degeneration-related protein - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 28-Sep-1990 #sequence_revision 28-Sep-1990 #text_change 24-Jun-1993
C;Accession: B35640
R;Chen, Y.T.; Rettig, W.J.; Yenamandra, A.K.; Kozak, C.A.; Chaganti, R.S.K.; Posner, J.B
Proc. Natl. Acad. Sci. U.S.A. 87, 3077-3081, 1990
A;Title: Cerebellar degeneration-related antigen: a highly conserved neuroectodermal mar
A;Reference number: A35640; MUID:90222173; PMID:2326268
A;Accession: B35640
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-6 <CHE>

Query Match   29.1%; Score 16; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches   2; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WE 2
        | |
Db   2 WE 3

Search completed: September 16, 2005, 11:58:33
Job time : 33.3333 secs

```
            GenCore version 5.1.6
       Copyright (c) 1993 - 2005  Compugen Ltd.

OM protein - protein search, using sw model

Run on:     September 16, 2005, 11:45:28 ; Search time 148 Seconds
                                 (without alignments)
                        34.600 Million cell updates/sec

Title:          US-10-795-795-6
Perfect score:  55
Sequence:       1 WEYFIAABEV 10

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5

Searched:       1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters:    2547

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :      UniProt_03:*
                1: uniprot_sprot:*
                2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

                          SUMMARIES
```

Result No.	Score	% Query Match	Length	DB	ID	Description
1	20	36.4	8	1	VAM6_MOUSE	P83853 mus musculu
2	20	36.4	9	2	Q7M3N6	Q7m3n6 gryllus bim
3	19	34.5	9	2	Q7M3L7	Q7m3l7 ascidia cer
4	19	34.5	9	2	Q75T44	Q75t44 mus musculu
5	18	32.7	8	2	P79940	P79940 xenopus lae
6	18	32.7	8	2	Q9R5M1	Q9r5m1 staphylococ
7	18	32.7	10	1	GON1_ALLMI	P37041 alligator m
8	18	32.7	10	1	GON3_ONCKE	P20367 oncorhynchu
9	17	30.9	10	2	Q7RC74	Q7rc74 plasmodium
10	17	30.9	10	2	Q7M530	Q7m530 pyrococcus
11	17	30.9	10	2	Q93T35	Q93t35 acinetobact
12	16	29.1	8	2	Q7M3S2	Q7m3s2 trypanosoma
13	16	29.1	8	2	Q7M3S3	Q7m3s3 trypanosoma
14	16	29.1	8	2	Q94VC1	Q94vc1 varanus rud
15	16	29.1	8	2	Q70Y57	Q70y57 fuerstia af
16	16	29.1	8	2	Q70Y84	Q70y84 plectranthu
17	16	29.1	8	2	Q9R7T2	Q9r7t2 escherichia
18	16	29.1	8	2	Q9MMF4	Q9mmf4 buteo rufin
19	16	29.1	9	2	Q9MMG9	Q9mmg9 buteo buteo
20	16	29.1	9	2	Q80X07	Q80x07 mus sp. thr
21	16	29.1	10	1	HTF_TABAT	P14596 tabanus atr
22	16	29.1	10	2	Q8WTT4	Q8wtt4 homo sapien
23	16	29.1	10	2	Q9UCQ4	Q9ucq4 homo sapien
24	16	29.1	10	2	Q71UL3	Q71ul3 haliotis ru
25	15.5	28.2	8	2	Q94VF6	Q94vf6 varanus job
26	15.5	28.2	10	1	GON1_CHEPR	P80677 chelyosoma
27	15	27.3	8	2	Q6BCZ9	Q6bcz9 homo sapien
28	15	27.3	9	1	NEUU_CAVPO	P34966 cavia porce
29	15	27.3	9	1	NEUX_HUMAN	P04277 homo sapien
30	15	27.3	9	2	Q93LE4	Q93le4 heliobacill
31	15	27.3	9	2	Q85710	Q85710 rous sarcom
32	15	27.3	10	2	Q7SA62	Q7sa62 neurospora
33	15	27.3	10	2	Q7RSI4	Q7rsi4 plasmodium
34	15	27.3	10	2	Q70F01	Q70f01 sus scrofa
35	15	27.3	10	2	P96305	P96305 alteromonas s
36	15	27.3	10	2	P96306	P96306 aeromonas s
37	15	27.3	10	2	P96321	P96321 escherichia
38	15	27.3	10	2	P96352	P96352 marinobacte
39	15	27.3	10	2	P96421	P96421 neisseria g
40	15	27.3	10	2	Q93LE5	Q93le5 photobacter
41	15	27.3	10	2	P96423	P96423 pseudomonas
42	15	27.3	10	2	O42355	O42355 brachydanio
43	14	25.5	5	1	RE21_LITRU	P82071 litoria rub
44	14	25.5	5	1	RE31_LITRU	P82072 litoria rub
45	14	25.5	8	2	Q42507	Q42507 triticum ae

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                          ALIGNMENTS

RESULT 1
VAM6_MOUSE
ID   VAM6_MOUSE           STANDARD;      PRT;       8 AA.
AC   P83853;
DT   05-JUL-2004 (Rel. 44, Created)
DT   05-JUL-2004 (Rel. 44, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Vam6-like protein (Fragment).
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   SEQUENCE.
RC   TISSUB=Sperm;
RA   Brahmaraju M., Shoeb M., Laloraya M., Kumar G.P.;
RT   "Spatio-temporal organization of Vam6P and SNAP on mouse spermatozoa
RT   and their involvement in sperm-zona pellucida interactions.";
RL   Submitted (MAR-2004) to Swiss-Prot.
CC   -!- FUNCTION: May play a role in clustering and fusion of late
CC       endosomes and lysosomes (By similarity).
CC   -!- SUBUNIT: Homooligomer (By similarity).
CC   -!- SUBCELLULAR LOCATION: Cytoplasmic and associated with the
CC       membranes of lysosomes and late endosomes (By similarity).
KW   Direct protein sequencing; Protein transport; Transport.
FT   NON_TER       8       8
SQ   SEQUENCE   8 AA;   1075 MW;  2CD727337B1B037B CRC64;

Query Match             36.4%;   Score 20;  DB 1;  Length 8;
Best Local Similarity   42.9%;   Pred. No. 1.6e+06;
Matches    3;  Conservative   2;  Mismatches   2;  Indels   0;  Gaps   0;

Qy          1 WEYFIAA 7
              || .:. |
Db          2 WEEWLLA 8

RESULT 2
Q7M3N6
ID   Q7M3N6               PRELIMINARY;     PRT;       9 AA.
AC   Q7M3N6;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Neuropeptide Grb-AST B4.
OS   Gryllus bimaculatus (Two-spotted cricket).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Orthopteroidea; Orthoptera; Ensifera; Gryllidae; Gryllinae;
OC   Gryllus.
OX   NCBI_TaxID=6999;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=95403341; PubMed-7673141; DOI=10.1074/jbc.270.36.21103;
RA   Lorenz M.W., Kellner R., Hoffmann K.H.;
```

RT   "A family of neuropeptides that inhibit juvenile hormone biosynthesis
RT   in the cricket, Gryllus bimaculatus.";
RL   J. Biol. Chem. 270:21103-21108(1995).
DR   PIR; D57444; D57444.
SQ   SEQUENCE   9 AA; 1175 MW; 3860B71B9D40B03 CRC64;

Query Match   36.4%; Score 20; DB 2; Length 9;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   0; Mismatches   1; Indels   1; Gaps   0;

Qy   1 WEYF 4
              ||| |
Db   2 WERF 5

RESULT 3
ID   Q7M3L7   PRELIMINARY;   PRT;   8 AA.
AC   Q7M3L7;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Blood cell protein A8 (Fragment).
OS   Ascidia ceratodes.
OC   Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
OC   Phlebobranchia; Ascidiidae; Ascidia.
OX   NCBI_TaxID=30276;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=96132650; PubMed=8554314; DOI=10.1006/abbi.1995.0035;
RA   Taylor S.W., Ross M.M., Waite J.H.;
RT   "Novel 3,4-di- and 3,4,5-trihydroxyphenylalanine-containing
RT   polypeptides from the blood cells of the ascidians Ascidia ceratodes
RT   and Molgula manhattensis.";
RL   Arch. Biochem. Biophys. 324:228-240(1995).
DR   PIR; S68325; S68325.
FT   NON_TER   1   1
FT   NON_TER   8   8
SQ   SEQUENCE   8 AA; 907 MW; D9DDDDDCB4B5A CRC64;

Query Match   34.5%; Score 19; DB 2; Length 8;
Best Local Similarity   50.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   2; Mismatches   2; Indels   1; Gaps   0;

Qy   2 EYFIAA 7
              |:|:||
Db   1 DYYYAA 6

RESULT 4
ID   Q7S44   PRELIMINARY;   PRT;   9 AA.
AC   Q7S44;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Nuclear receptor RORalpha4 (Fragment).
GN   Name=RORa4;
OS   Mus musculus (Mouse).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX   NCBI_TaxID=10090;
RN   [1]
RP   SEQUENCE FROM N.A.
RA   Miki N., Ikuta M., Matsui T.;
RL   Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AB127583; BAD14939.1; -.
DR   GO; GO:0004872; F:receptor activity; IEA.
KW   Receptor.
FT   NON_TER   9   9
SQ   SEQUENCE   9 AA; 1073 MW; 110F99DDDD042C9DB CRC64;

Query Match   34.5%; Score 19; DB 2; Length 9;

Best Local Similarity   60.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   1; Indels   1; Gaps   0;

Qy   3 YFIAA 7
              ||:|
Db   2 YFVIA 6

RESULT 5
ID   P79940   PRELIMINARY;   PRT;   8 AA.
AC   P79940;
DT   01-MAY-1997 (TrEMBLrel. 03, Created)
DT   01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT   01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE   XMeis1-4 protein (Fragment).
OS   Xenopus laevis (African clawed frog).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
OC   Xenopodinae; Xenopus.
OX   NCBI_TaxID=8355;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=97202105; PubMed=9049632;
RA   Steelman S., Moskow J.J., Muzynski K., North C., Druck T.,
RA   Montgomery J.C., Huebner K., Daar I.O., Buchberg A.M.;
RT   "Identification of a conserved family of Meis1-related homeobox
RT   genes.";
RL   Genome Res. 7:142-156(1997).
DR   EMBL; U68389; AAB19199.1; -.
DR   TRANSFAC; T03410; -.
FT   NON_TER   1   1
SQ   SEQUENCE   8 AA; 1187 MW; 278B51F37B11F40B CRC64;

Query Match   32.7%; Score 18; DB 2; Length 8;
Best Local Similarity   66.7%; Pred. No. 1.6e+06;
Matches   2; Conservative   0; Mismatches   0; Indels   1; Gaps   0;

Qy   1 WEY 3
              ||
Db   5 WHY 7

RESULT 6
ID   Q9R5M1   PRELIMINARY;   PRT;   9 AA.
AC   Q9R5M1;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE   66 kDa cell surface adhesin for heparan sulfate (Fragment).
OS   Staphylococcus aureus.
OC   Bacteria; Firmicutes; Bacillales; Staphylococcus.
OX   NCBI_TaxID=1280;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=92176005; PubMed=1541563;
RA   Liang O.D., Ascencio F., Fransson L.A., Wadstrom T.;
RT   "Binding of heparan sulfate to Staphylococcus aureus.";
RL   Infect. Immun. 60:899-906(1992).
DR   PIR; A43848; A43848.
FT   NON_TER   1   1
FT   NON_TER   9   9
SQ   SEQUENCE   9 AA; 990 MW; 2289DDD733786183 CRC64;

Query Match   32.7%; Score 18; DB 2; Length 9;
Best Local Similarity   42.9%; Pred. No. 1.6e+06;
Matches   3; Conservative   3; Mismatches   2; Indels   2; Gaps   0;

Qy   1 WEYFIAA 7
              | :||
Db   2 WTGWLAA 8

RESULT 7
GON1_ALLMI
ID   GON1_ALLMI   STANDARD;   PRT;   10 AA.
AC   P37041; P20407;
DT   01-FEB-1991 (Rel. 17, Created)
DT   01-FEB-1991 (Rel. 17, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Gonadoliberin I (Gonadotropin-releasing hormone I) (GnRH-I) (LH-RH I)
DE   (Luliberin I).
OS   Alligator mississippiensis (American alligator).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Archosauria; Crocodylidae; Alligatorinae; Alligator.
OX   NCBI_TaxID=8496;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Brain;
RX   MEDLINE=91352338; PubMed=1882082; DOI=10.1016/0167-0115(91)90206-V;
RA   Lovejoy D.A., Fischer W.H., Parker D.B., McRory J.B., Park M.,
RA   Lance V., Swanson P., Rivier J.E., Sherwood N.M.;
RT   "Primary structure of two forms of gonadotropin-releasing hormone from
RT   brains of the American alligator (Alligator mississippiensis).";
RL   Regul. Pept. 33:105-116(1991).
CC   -!- FUNCTION: Stimulates the secretion of gonadotropins.
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the GnRH family.
DR   PIR; A60066; RHAQ1.
DR   InterPro; IPR002012; GnRH.
DR   Pfam; PF00446; GnRH; 1.
DR   PROSITE; PS00473; GnRH; 1.
KW   Amidation; Direct protein sequencing; Hormone; Hypothalamus;
KW   Pyrrolidone carboxylic acid.
FT   MOD_RES   1   1   Pyrrolidone carboxylic acid.
FT   MOD_RES   10   10   Glycine amide.
SQ   SEQUENCE   10 AA;   1172 MW;   284B23D7286B45A3 CRC64;

Query Match   32.7%;
Best Local Similarity   66.7%;   Score 18;   DB 1;   Length 10;
Matches   2; Conservative   0; Mismatches   0; Indels   1; Gaps   0;   Pred. No. 2e+04;

Qy   1 WEY 3
               ||
Db   3 WSY 5

RESULT 8
GON3_ONCKE
ID   GON3_ONCKE   STANDARD;   PRT;   10 AA.
AC   P20367; P81751;
DT   01-FEB-1991 (Rel. 17, Created)
DT   01-FEB-1991 (Rel. 17, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Gonadoliberin III (Gonadotropin-releasing hormone III) (GnRH-III) (LH-
DE   RH III) (Luliberin III).
GN   Name=GNRH3;
OS   Oncorhynchus keta (Chum salmon), and
OS   Clupea pallasii (Pacific herring).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC   Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX   NCBI_TaxID=8018, 30724;
RN   [1]
RP   SEQUENCE.
RC   SPECIES=O.keta;
RX   MEDLINE=81951140; PubMed=6341999;
RA   Sherwood N., Eiden L., Brownstein M., Spiess J., Rivier J., Vale W.;
RT   "Characterization of a teleost gonadotropin-releasing hormone.";
RL   Proc. Natl. Acad. Sci. U.S.A. 80:2794-2798(1983).
RN   [2]
RP   SEQUENCE, AND FUNCTION.
RC   SPECIES=C.pallasii; TISSUE=Brain, and Pituitary;
RX   MEDLINE=20114351; PubMed=10650929; DOI=10.1210/en.141.2.505;
RA   Carolsfeld J., Powell J.F.F., Park M., Fischer W.H., Craig A.G.,
RA   Chang J.P., Rivier J.E., Sherwood N.M.;
RT   "Primary structure and function of three gonadotropin-releasing
RT   hormones, including a novel form, from an ancient teleost, herring.";
RL   Endocrinology 141:505-512(2000).
CC   -!- FUNCTION: Stimulates the secretion of gonadotropins; it stimulates
CC   the secretion of both luteinizing and follicle-stimulating
CC   hormones.
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the GnRH family.
DR   PIR; A21114; A21114.
DR   InterPro; IPR002012; GnRH.
DR   Pfam; PF00446; GnRH; 1.
DR   PROSITE; PS00473; GnRH; 1.
KW   Amidation; Direct protein sequencing; Hormone; Hypothalamus;
KW   Pyrrolidone carboxylic acid.
FT   MOD_RES   1   1   Pyrrolidone carboxylic acid.
FT   MOD_RES   10   10   Glycine amide.
SQ   SEQUENCE   10 AA;   1230 MW;   284B23D7286B45A3 CRC64;

Query Match   32.7%;
Best Local Similarity   66.7%;   Score 18;   DB 1;   Length 10;
Matches   2; Conservative   0; Mismatches   0; Indels   1; Gaps   0;   Pred. No. 2e+04;

Qy   1 WEY 3
               ||
Db   3 WSY 5

RESULT 9
Q7RC74
ID   Q7RC74   PRELIMINARY;   PRT;   8 AA.
AC   Q7RC74;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Hypothetical protein (Fragment).
GN   Name=PY05910;
OS   Plasmodium yoelii yoelii.
OC   Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX   NCBI_TaxID=73239;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=17XNL;
RX   PubMed=12368865; DOI=10.1038/nature01099;
RA   Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Pertea M.,
RA   Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
RA   Peterson J.D., Pop M., Kosack D.S., Shumway M.F., Bidwell S.L.,
RA   Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V.,
RA   Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M.,
RA   Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A.,
RA   Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B.,
RA   van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
RA   Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.J.,
RA   Carucci D.J.;
RT   "Genome sequence and comparative analysis of the model rodent malaria
RT   parasite Plasmodium yoelii yoelii.";
RL   Nature 419:512-519(2002).
CC   -!- CAUTION: The sequence shown here is derived from an
CC   EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
CC   preliminary data.
DR   EMBL; AABL01001938; EAA18015.1; -.
KW   Hypothetical protein.
FT   NON_TER   8   8
SQ   SEQUENCE   8 AA;   990 MW;   F959DB41B2CEB446 CRC64;

Query Match   30.9%;
Best Local Similarity 100.0%;   Score 17;   DB 2;   Length 8;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;   Pred. No. 1.6e+06;

Qy   3 YFI 5
              |||
Db   6 YFI 8

RESULT 10
Q7M530
ID   Q7M530   PRELIMINARY;   PRT;   10 AA.
AC   Q7M530;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Aldehyde ferredoxin oxidoreductase (EC 1.2.7.-) (Fragment).
OS   Pyrococcus furiosus.
OC   Archaea; Euryarchaeota; Thermococci; Thermococcales; Thermococcaceae;
OC   Pyrococcus.
OX   NCBI_TaxID=2261;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=91317766; PubMed=1907273;
RA   Mukund S., Adams M.W.W.;
RT   "The novel tungsten-iron-sulfur protein of the hyperthermophilic
RT   archaebacterium, Pyrococcus furiosus, is an aldehyde ferredoxin
RT   oxidoreductase. Evidence for its participation in a unique glycolytic
RT   pathway.";
RL   J. Biol. Chem. 266:14208-14216(1991).
DR   PIR; A40753; A40753.
FT   NON_TER   10   10
SQ   SEQUENCE   10 AA;   1272 MW; 3E3260D40863744B CRC64;

Query Match   30.9%; Score 17; DB 2; Length 10;
Best Local Similarity   60.0%; Pred. No. 3.1e+04;
Matches   3; Conservative   0; Mismatches   2; Indels   2; Gaps   0;

Qy   1 WEYFPI 5
               |||||
Db   5 WGRFPI 9

RESULT 11
Q93T35
ID   Q93T35   PRELIMINARY;   PRT;   10 AA.
AC   Q93T35;
DT   01-DEC-2001 (TrEMBLrel. 19, Created)
DT   01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT   01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE   Quaternary ammonium compound-resistance protein (Fragment).
GN   Name=qacEdelta1;
OS   Acinetobacter genomosp. 3.
OC   Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
OC   Moraxellaceae; Acinetobacter.
OX   NCBI_TaxID=48296;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=YMCU160;
RX   MEDLINE=21999242; PubMed=12003980;
RA   Yum J.H., Yi K., Lee H., Yong D., Lee K., Kim J.M., Rossolini G.M.,
RA   Chong Y.;
RT   "Molecular characterization of metallo-b-lactamase-producing
RT   Acinetobacter baumannii and Acinetobacter genomospecies 3 from Korea:
RT   identification of two new integrons carrying the bla(VIM-2) gene
RT   cassettes.";
RL   J. Antimicrob. Chemother. 49:837-840(2002).
DR   EMBL; AF369871; AAK54205.1; -.
FT   NON_TER   10   10
SQ   SEQUENCE   10 AA;   1178 MW; 2E287BC729C73378 CRC64;

Query Match   30.9%; Score 17; DB 2; Length 10;
Best Local Similarity   28.6%; Pred. No. 3.1e+04;
Matches   2; Conservative   2; Mismatches   3; Indels   2; Gaps   0;

Qy   1 WEYFPIAA 7
              |:::|
Db   4 WLFLVIA 10

RESULT 12

Q7M3S2
ID   Q7M3S2   PRELIMINARY;   PRT;   8 AA.
AC   Q7M3S2;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Variant surface glycoprotein MITat 1.6 (Fragment).
OS   Trypanosoma brucei.
OC   Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX   NCBI_TaxID=5691;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=81172836; PubMed=6163983; DOI=10.1016/0166-6851(81)90095-5;
RA   Holder A.A., Cross G.A.M.;
RT   "Glycopeptides from variant surface glycoproteins of Trypanosoma
RT   brucei. C-terminal location of antigenically cross-reacting
RT   carbohydrate moieties.";
RL   Mol. Biochem. Parasitol. 2:135-150(1981).
DR   PIR; D61512; D61512.
FT   NON_TER   1   1
FT   NON_TER   8   8
SQ   SEQUENCE   8 AA;   967 MW; 74033EA1AB187B03 CRC64;

Query Match   29.1%; Score 16; DB 2; Length 8;
Best Local Similarity   100.0%; Pred. No. 1.6e+06;
Matches   2; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WE 2
             ||
Db   1 WE 2

RESULT 13
Q7M3S3
ID   Q7M3S3   PRELIMINARY;   PRT;   8 AA.
AC   Q7M3S3;
DT   01-MAR-2004 (TrEMBLrel. 26, Created)
DT   01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Variant surface glycoprotein MITat 1.4 (Fragment).
OS   Trypanosoma brucei.
OC   Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
OX   NCBI_TaxID=5691;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=81172836; PubMed=6163983; DOI=10.1016/0166-6851(81)90095-5;
RA   Holder A.A., Cross G.A.M.;
RT   "Glycopeptides from variant surface glycoproteins of Trypanosoma
RT   brucei. C-terminal location of antigenically cross-reacting
RT   carbohydrate moieties.";
RL   Mol. Biochem. Parasitol. 2:135-150(1981).
DR   PIR; C61512; C61512.
FT   NON_TER   1   1
FT   NON_TER   8   8
SQ   SEQUENCE   8 AA;   979 MW; 74033EBDD4444B03 CRC64;

Query Match   29.1%; Score 16; DB 2; Length 8;
Best Local Similarity   100.0%; Pred. No. 1.6e+06;
Matches   2; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WE 2
             ||
Db   1 WE 2

RESULT 14
Q94VC1
ID   Q94VC1   PRELIMINARY;   PRT;   8 AA.
AC   Q94VC1;
DT   01-DEC-2001 (TrEMBLrel. 19, Created)
DT   01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT   01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE   Cytochrome c oxidase subunit I (Fragment).

```
GN   Name=COI;
OS   Varanus rudicollis (Rough-necked monitor).
OG   Mitochondrion.
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
OX   NCBI_TaxID=169851;
RN   [1]
RP   SEQUENCE FROM N.A.
RA   Ast J.C.;
RT   "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
RL   Cladistics 17:211-226(2001).
DR   EMBL; AF407521; AAL10116.1; -.
DR   GO; GO:0005739; C:mitochondrion; IEA.
KW   Mitochondrion.
FT   NON_TER         8          8
SQ   SEQUENCE   8 AA;   1053 MW;   FB2729D5A36411A6 CRC64;

Query Match          29.1%;   Score 16;   DB 2;   Length 8;
Best Local Similarity  20.0%;   Pred. No. 1.6e+06;
Matches  1;   Conservative  2;   Mismatches  2;   Indels  0;   Gaps  0;

Qy     1 WEYFI 5
           |.:.:
Db     4 WSFLL 8


RESULT 15
Q70Y57
ID   Q70Y57          PRELIMINARY;       PRT;       8 AA.
AC   Q70Y57;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Ribosomal protein (Fragment).
GN   Name=rps16;
OS   Fuerstia africana.
OG   Chloroplast.
OC   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC   Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
OC   lamiids; Lamiales; Lamiaceae; Nepetoideae; Ocimeae; Fuerstia.
OX   NCBI_TaxID=204226;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   PubMed=15019625; DOI=10.1016/j.ympev.2003.08.002;
RA   Paton A., Springate D.A., Sudde S., Otieno D., Grayer R., Harley M.M.,
RA   Willis F., Simonds M.S.J., Powell M.P., Savolainen V.;
RT   "Phylogeny and evolution of basils and allies (Ocimeae, Labiatae)
RT   based on three plastid DNA regions.";
RL   Mol. Phylogenet. Evol. 31:277-299(2004).
DR   EMBL; AJ505427; CAD45547.1; -.
DR   GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW   Ribosomal protein.
FT   NON_TER         1          1
FT   NON_TER         8          8
SQ   SEQUENCE   8 AA;   916 MW;   DABEAB5863704185 CRC64;

Query Match          29.1%;   Score 16;   DB 2;   Length 8;
Best Local Similarity  66.7%;   Pred. No. 1.6e+06;
Matches  2;   Conservative  0;   Mismatches  1;   Indels  0;   Gaps  0;

Qy     1 WEY 3
           |.|
Db     4 WGY 6


Search completed: September 16, 2005, 11:57:40
Job time : 150 secs
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OM protein - protein search, using sw model

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                GenCore version 5.1.6
                Copyright (c) 1993 - 2005 Compugen Ltd.
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Run on: September 16, 2005, 11:54:04 ; Search time 65.3333 Seconds
                                 (without alignments)
                                 25.020 Million cell updates/sec

Title: US-10-795-795-6
Perfect score: 55
Sequence: 1 WEYFIAAEEV 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 760079 seqs, 163465437 residues

Total number of hits satisfying chosen parameters: 87311

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                   Maximum Match 100%
                   Listing first 45 summaries

Database :   Pending_Patents_AA_New:*
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     2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
     3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
     4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
     5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
     6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
     7: /cgn2_6/ptodata/2/paa/US11_NEW_COMB.pep:*
     8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	26	47.3	6	7	US-11-043-020-9	Sequence 9, Appli
2	26	47.3	9	6	US-10-817-970-4124	Sequence 4124, Ap
3	26	47.3	9	6	US-10-817-970-4125	Sequence 4125, Ap
4	26	47.3	9	6	US-10-817-970-4137	Sequence 4137, Ap
5	26	47.3	9	6	US-10-538-066-336	Sequence 336, App
6	26	47.3	9	7	US-11-097-912-101	Sequence 101, App
7	26	47.3	9	7	US-11-097-912-372	Sequence 372, App
8	26	47.3	9	7	US-11-097-912-657	Sequence 657, App
9	26	47.3	9	7	US-11-097-864-101	Sequence 101, App
10	26	47.3	9	7	US-11-097-864-372	Sequence 372, App
11	26	47.3	10	6	US-11-097-864-657	Sequence 657, App
12	26	47.3	10	6	US-10-817-970-4176	Sequence 4176, Ap
13	26	47.3	10	6	US-10-817-970-4177	Sequence 4177, Ap
14	26	47.3	10	6	US-10-817-970-4192	Sequence 4192, Ap
15	26	47.3	10	6	US-10-817-970-4308	Sequence 4308, Ap
16	26	47.3	10	7	US-11-097-912-151	Sequence 151, App
17	26	47.3	10	7	US-11-097-912-207	Sequence 207, App
18	26	47.3	10	7	US-11-097-912-421	Sequence 421, App
19	26	47.3	10	7	US-11-097-912-545	Sequence 545, App
20	26	47.3	10	7	US-11-097-912-637	Sequence 637, App
21	26	47.3	10	7	US-11-097-864-151	Sequence 151, App
22	26	47.3	10	7	US-11-097-864-207	Sequence 207, App
23	26	47.3	10	7	US-11-097-864-421	Sequence 421, App
24	26	47.3	10	7	US-11-097-864-545	Sequence 545, App
25	26	47.3	10	7	US-11-097-864-637	Sequence 637, App
26	26	45.5	8	6	US-10-998-519-6	Sequence 6, Appli
27	25	45.5	8	6	US-10-820-067A-200	Sequence 200, App
28	25	45.5	9	1	PCT-US04-33942-110	Sequence 110, App
29	24	43.6	4	6	US-10-351-641B-1565	Sequence 1565, Ap
30	24	43.6	5	6	US-10-351-641B-1566	Sequence 1566, Ap
31	24	43.6	6	6	US-10-351-641B-1567	Sequence 1567, Ap
32	24	43.6	6	6	US-10-351-641B-1583	Sequence 1583, Ap
33	24	43.6	8	6	US-10-351-641B-1586	Sequence 1586, Ap
34	24	43.6	8	6	US-10-351-641B-1433	Sequence 1433, Ap
35	24	43.6	8	6	US-10-351-641B-1563	Sequence 1563, Ap
36	24	43.6	8	6	US-10-351-641B-1570	Sequence 1570, Ap
37	24	43.6	8	6	US-10-351-641B-1571	Sequence 1571, Ap
38	24	43.6	8	6	US-10-351-641B-1629	Sequence 1629, Ap
39	24	43.6	9	1	PCT-US04-33939-463	Sequence 463, App
40	24	43.6	9	6	US-10-351-641B-1564	Sequence 1564, Ap
41	24	43.6	10	6	US-10-351-641B-1572	Sequence 1572, Ap
42	24	43.6	10	6	US-10-351-641B-1573	Sequence 1573, Ap
43	24	43.6	10	6	US-10-351-641B-1584	Sequence 1584, Ap
44	24	43.6	10	6	US-10-351-641B-1585	Sequence 1585, Ap
45	24	43.6	10	7	US-11-129-260-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-11-043-020-9
; Sequence 9, Application US/11043020
; GENERAL INFORMATION:
; APPLICANT: Premack, Brett
; APPLICANT: Schall, Thomas
; TITLE OF INVENTION: COMPOSITIONS AND METHODS OF USE OF W-PEPTIDES
; FILE REFERENCE: 10709/103
; CURRENT APPLICATION NUMBER: US/11/043,020
; CURRENT FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: US 60/539,665
; PRIOR FILING DATE: 2004-01-26
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: W-tide
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-Met
US-11-043-020-9

Query Match   47.3%;   Score 26; DB 7; Length 6;
Best Local Similarity   60.0%;   Pred. No. 6.9e+05;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

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Qy          1 WEYFI 5
              ||| |
Db          1 WEYMV 5
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RESULT 2
US-10-817-970-4124
; Sequence 4124, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses

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; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4124
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4124

  Query Match      47.3%;   Score 26;   DB 6;   Length 9;
  Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
  Matches   3;  Conservative   1;  Mismatches   1;  Indels   0;  Gaps   0;

Qy     1 WEYF 4
           |:||
Db     6 WQYF 9

RESULT 3
US-10-817-970-4125
; Sequence 4125, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4125
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4125

  Query Match      47.3%;   Score 26;   DB 6;   Length 9;
  Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
  Matches   3;  Conservative   1;  Mismatches   1;  Indels   0;  Gaps   0;

Qy     1 WEYF 4
           |:||
Db     5 WQYF 8

RESULT 4
US-10-817-970-4137
; Sequence 4137, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4137
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4137
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Query Match   47.3%;   Score 26;   DB 6;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy       1 WEYF 4
           |:||
Db       2 WQYF 5
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RESULT 5
US-10-538-066-336
; Sequence 336, Application US/10538066
; GENERAL INFORMATION:
; APPLICANT: Epimmune Inc.
; TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen
; TITLE OF INVENTION: Peptides and Compositions
; FILE REFERENCE: 2060.015PC06
; CURRENT APPLICATION NUMBER: US/10/538,066
; CURRENT FILING DATE: 2005-06-09
; PRIOR APPLICATION NUMBER: US 60/432,017
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 767
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 336
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-538-066-336

Query Match   47.3%;   Score 26;   DB 6;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy       1 WEYF 4
           |:||
Db       2 WQYF 5
```

RESULT 6
US-11-097-912-101
; Sequence 101, Application US/11097912
; GENERAL INFORMATION:
; APPLICANT: Challita-Eid, Pia M.
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Faris, Mary
; APPLICANT: Hubert, Rene S.
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Jakobovits, Aya
; TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN ENTITLED 161P2F10B
; TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
; FILE REFERENCE: 51158006204
; CURRENT APPLICATION NUMBER: US/11/097,912
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 10/062,109
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US 10/005,480
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 765
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-097-912-101

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy       1 WEYF 4
           |:||
Db       3 WDYF 6
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RESULT 7
US-11-097-912-372
; Sequence 372, Application US/11097912
; GENERAL INFORMATION:
; APPLICANT: Challita-Eid, Pia M.
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Faris, Mary
; APPLICANT: Hubert, Rene S.
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Jakobovits, Aya
; TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN ENTITLED 161P2F10B
; TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
; FILE REFERENCE: 51158006204
; CURRENT APPLICATION NUMBER: US/11/097,912
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 10/062,109
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US 10/005,480
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 765
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 372
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-097-912-372

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy       1 WEYF 4
           |:||
Db       6 WDYF 9
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RESULT 8
US-11-097-912-657
; Sequence 657, Application US/11097912
; GENERAL INFORMATION:
; APPLICANT: Challita-Eid, Pia M.
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Faris, Mary
; APPLICANT: Hubert, Rene S.
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Jakobovits, Aya
; TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN ENTITLED 161P2F10B
; TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
; FILE REFERENCE: 51158006204
; CURRENT APPLICATION NUMBER: US/11/097,912
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 10/062,109
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US 10/005,480
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 765
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 657
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-097-912-657

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

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Qy       1 WEYF 4
           |:||
Db       3 WDYF 6
```

RESULT 9
US-11-097-864-101
; Sequence 101, Application US/11097864
; GENERAL INFORMATION:
;   APPLICANT: Challita-Eid, Pia M.
;   APPLICANT: Raitano, Arthur B.
;   APPLICANT: Faris, Mary
;   APPLICANT: Hubert, Rene S.
;   APPLICANT: Morrison, Karen Jane Meyrick
;   APPLICANT: Jakobovits, Aya
;   TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN NAMED 161P2F10B
;   TITLE OF INVENTION: USEFUL IN THE TREATMENT AND DETECTION OF CANCER
;   FILE REFERENCE: 511582006205
;   CURRENT APPLICATION NUMBER: US/11/097,864
;   CURRENT FILING DATE: 2005-04-01
;   PRIOR APPLICATION NUMBER: US 10/062,109
;   PRIOR FILING DATE: 2002-01-31
;   PRIOR APPLICATION NUMBER: US 10/005,480
;   PRIOR FILING DATE: 2001-11-07
;   NUMBER OF SEQ ID NOS: 765
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-097-864-101

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 WEYF 4
       |:||
Db   3 WDYF 6

RESULT 10
US-11-097-864-372
; Sequence 372, Application US/11097864
; GENERAL INFORMATION:
;   APPLICANT: Challita-Eid, Pia M.
;   APPLICANT: Raitano, Arthur B.
;   APPLICANT: Faris, Mary
;   APPLICANT: Hubert, Rene S.
;   APPLICANT: Morrison, Karen Jane Meyrick
;   APPLICANT: Jakobovits, Aya
;   TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN NAMED 161P2F10B
;   TITLE OF INVENTION: USEFUL IN THE TREATMENT AND DETECTION OF CANCER
;   FILE REFERENCE: 511582006205
;   CURRENT APPLICATION NUMBER: US/11/097,864
;   CURRENT FILING DATE: 2005-04-01
;   PRIOR APPLICATION NUMBER: US 10/062,109
;   PRIOR FILING DATE: 2002-01-31
;   PRIOR APPLICATION NUMBER: US 10/005,480
;   PRIOR FILING DATE: 2001-11-07
;   NUMBER OF SEQ ID NOS: 765
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 372
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-097-864-372

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 WEYF 4
       |:||
Db   6 WDYF 9

RESULT 11
US-11-097-864-657
; Sequence 657, Application US/11097864
; GENERAL INFORMATION:
;   APPLICANT: Challita-Eid, Pia M.
;   APPLICANT: Raitano, Arthur B.
;   APPLICANT: Faris, Mary
;   APPLICANT: Hubert, Rene S.
;   APPLICANT: Morrison, Karen Jane Meyrick
;   APPLICANT: Jakobovits, Aya
;   TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN NAMED 161P2F10B
;   TITLE OF INVENTION: USEFUL IN THE TREATMENT AND DETECTION OF CANCER
;   FILE REFERENCE: 511582006205
;   CURRENT APPLICATION NUMBER: US/11/097,864
;   CURRENT FILING DATE: 2005-04-01
;   PRIOR APPLICATION NUMBER: US 10/062,109
;   PRIOR FILING DATE: 2002-01-31
;   PRIOR APPLICATION NUMBER: US 10/005,480
;   PRIOR FILING DATE: 2001-11-07
;   NUMBER OF SEQ ID NOS: 765
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 657
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-11-097-864-657

Query Match   47.3%;   Score 26;   DB 7;   Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3;   Conservative   1;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   1 WEYF 4
       |:||
Db   3 WDYF 6

RESULT 12
US-10-817-970-4176
; Sequence 4176, Application US/10817970
; GENERAL INFORMATION:
;   APPLICANT: Grey, H.
;   APPLICANT: Sette, A.
;   APPLICANT: Sidney, J.
;   APPLICANT: Southwood, S.
;   APPLICANT: Kubo, R.
;   APPLICANT: Celis, E.
;   APPLICANT: Chesnut, R.
;   APPLICANT: Kast, W.M.
;   TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
;   FILE REFERENCE: 2060.0500000
;   CURRENT APPLICATION NUMBER: US/10/817,970
;   CURRENT FILING DATE: 2004-04-06
;   PRIOR APPLICATION NUMBER: 08/821,739
;   PRIOR FILING DATE: 1997-03-20
;   PRIOR APPLICATION NUMBER: 60/013,833
;   PRIOR FILING DATE: 1996-03-21
;   PRIOR APPLICATION NUMBER: 08/589,107
;   PRIOR FILING DATE: 1996-01-23
;   PRIOR APPLICATION NUMBER: 08/451,913
;   PRIOR FILING DATE: 1995-05-26
;   PRIOR APPLICATION NUMBER: 08/186,266
;   PRIOR FILING DATE: 1994-01-25
;   PRIOR APPLICATION NUMBER: 08/159,339
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: 08/103,396
;   PRIOR FILING DATE: 1993-08-06
;   PRIOR APPLICATION NUMBER: 08/027,746
;   PRIOR FILING DATE: 1993-03-05
;   PRIOR APPLICATION NUMBER: 07/926,666
;   PRIOR FILING DATE: 1992-08-07
;   PRIOR APPLICATION NUMBER: 08/347,610
;   PRIOR FILING DATE: 1994-12-01
;   Remaining Prior Application data removed - See File Wrapper or PALM.
;   NUMBER OF SEQ ID NOS: 14635

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4176
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4176

Query Match   47.3%; Score 26; DB 6; Length 10;
Best Local Similarity   75.0%; Pred. No. 1.2e+02;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
            |:|||
Db   7 WQYF 10

RESULT 13
US-10-817-970-4177
; Sequence 4177, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4177
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4177

Query Match   47.3%; Score 26; DB 6; Length 10;
Best Local Similarity   75.0%; Pred. No. 1.2e+02;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
            |:|||
Db   6 WQYF 9

RESULT 14
US-10-817-970-4192
; Sequence 4192, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4192
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4192

Query Match   47.3%; Score 26; DB 6; Length 10;
Best Local Similarity   75.0%; Pred. No. 1.2e+02;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
            |:|||
Db   2 WQYF 5

RESULT 15
US-10-817-970-4308
; Sequence 4308, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06

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;   PRIOR APPLICATION NUMBER: 08/821,739
;   PRIOR FILING DATE: 1997-03-20
;   PRIOR APPLICATION NUMBER: 60/013,833
;   PRIOR FILING DATE: 1996-03-21
;   PRIOR APPLICATION NUMBER: 08/589,107
;   PRIOR FILING DATE: 1996-01-23
;   PRIOR APPLICATION NUMBER: 08/451,913
;   PRIOR FILING DATE: 1995-05-26
;   PRIOR APPLICATION NUMBER: 08/186,266
;   PRIOR FILING DATE: 1994-01-25
;   PRIOR APPLICATION NUMBER: 08/159,339
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: 08/103,396
;   PRIOR FILING DATE: 1993-08-06
;   PRIOR APPLICATION NUMBER: 08/027,746
;   PRIOR FILING DATE: 1993-03-05
;   PRIOR APPLICATION NUMBER: 07/926,666
;   PRIOR FILING DATE: 1992-08-07
;   PRIOR APPLICATION NUMBER: 08/347,610
;   PRIOR FILING DATE: 1994-12-01
;   Remaining Prior Application data removed - See File Wrapper or PALM.
;   NUMBER OF SEQ ID NOS: 14635
;   SOFTWARE: FastSEQ for Windows Version 4.0
;   SEQ ID NO 4308
;     LENGTH: 10
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: Synthetic Peptide
US-10-817-970-4308

Query Match       47.3%;   Score 26;   DB 6;   Length 10;
Best Local Similarity   75.0%;   Pred. No. 1.2e+02;
Matches   3;   Conservative   1;   Mismatches   0;   Indels   0;   Gaps   0;

Qy      1 WEYF 4
            |:||
Db      7 WQYF 10

Search completed: September 16, 2005, 12:12:32
Job time : 66.3333 secs
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OM protein - protein search, using sw model

Run on: September 16, 2005, 11:49:59 ; Search time 444 Seconds
(without alignments)
26.306 Million cell updates/sec

Title: US-10-795-795-6
Perfect score: 55
Sequence: 1 WEYFIAAEEV 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 6959266 seqs, 1168006243 residues

Total number of hits satisfying chosen parameters: 755392

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	ID	Description
1	55	100.0	10	33	US-10-795-795-6	Sequence 6, Appli
2	44	80.0	9	33	PCT-US04-21487A-24	Sequence 24, Appl
3	33	60.0	10	33	US-10-795-795-5	Sequence 5, Appli
4	27	49.1	10	35	US-10-937-912-105	Sequence 105, App
5	26	47.3	5	5	PCT-US04-21487A-25	Sequence 25, Appl
6	26	47.3	6	29	US-10-353-419A-5	Sequence 5, Appli
7	26	47.3	8	18	US-09-458-298-78	Sequence 78, Appl
8	26	47.3	8	18	US-09-458-298-454	Sequence 454, App
9	26	47.3	8	18	US-09-458-298-772	Sequence 772, App
10	26	47.3	8	18	US-09-458-298-1276	Sequence 1276, Ap
11	26	47.3	8	18	US-09-458-298-1279	Sequence 1279, Ap
12	26	47.3	8	18	US-09-458-298-1654	Sequence 1654, Ap
13	26	47.3	8	18	US-09-458-298-1658	Sequence 1658, Ap
14	26	47.3	8	18	US-09-458-298A-78	Sequence 78, Appl
15	26	47.3	8	18	US-09-458-298A-454	Sequence 454, App
16	26	47.3	8	18	US-09-458-298A-772	Sequence 772, App
17	26	47.3	8	18	US-09-458-298A-1276	Sequence 1276, Ap
18	26	47.3	8	18	US-09-458-298A-1279	Sequence 1279, Ap
19	26	47.3	8	18	US-09-458-298A-1654	Sequence 1654, Ap
20	26	47.3	8	18	US-09-458-298A-1658	Sequence 1658, Ap
21	26	47.3	8	18	US-09-458-298B-78	Sequence 78, Appl
22	26	47.3	8	18	US-09-458-298B-454	Sequence 454, App
23	26	47.3	8	18	US-09-458-298B-772	Sequence 772, App
24	26	47.3	8	18	US-09-458-298B-1276	Sequence 1276, Ap
25	26	47.3	8	18	US-09-458-298B-1279	Sequence 1279, Ap
26	26	47.3	8	18	US-09-458-298B-1654	Sequence 1654, Ap
27	26	47.3	8	18	US-09-458-298B-1658	Sequence 1658, Ap
28	26	47.3	8	27	US-10-149-135-78	Sequence 78, Appl
29	26	47.3	8	27	US-10-149-135-454	Sequence 454, App
30	26	47.3	8	27	US-10-149-135-772	Sequence 772, App
31	26	47.3	8	27	US-10-149-135-1276	Sequence 1276, Ap
32	26	47.3	8	27	US-10-149-135-1279	Sequence 1279, Ap
33	26	47.3	8	27	US-10-149-135-1654	Sequence 1654, Ap
34	26	47.3	8	27	US-10-149-135-1658	Sequence 1658, Ap
35	26	47.3	8	9	PCT-US03-10571-116	Sequence 116, App
36	26	47.3	9	1	PCT-US03-16736-26	Sequence 26, Appl
37	26	47.3	9	1	PCT-US03-38949-336	Sequence 336, App
38	26	47.3	9	1	US-08-347-610-186	Sequence 186, App
39	26	47.3	9	7	US-08-347-610-187	Sequence 187, App
40	26	47.3	9	7	US-08-347-610-199	Sequence 199, App
41	26	47.3	9	7	US-08-347-610A-186	Sequence 186, App
42	26	47.3	9	7	US-08-347-610A-187	Sequence 187, App
43	26	47.3	9	7	US-08-347-610A-199	Sequence 199, App
44	26	47.3	9	7	US-08-347-610B-186	Sequence 186, App
45	26	47.3	9	7	US-08-347-610B-187	Sequence 187, App

ALIGNMENTS

RESULT 1
US-10-795-795-6
; Sequence 6, Application US/10795795
; GENERAL INFORMATION:
; APPLICANT: Cleveland State University
; APPLICANT: Kalafatis, Michael
; APPLICANT: Mann, Kenneth G.
; TITLE OF INVENTION: Thrombin Generation Inhibitor
; FILE REFERENCE: 27433/04004
; CURRENT APPLICATION NUMBER: US/10/795,795
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/911,129B
; PRIOR FILING DATE: 2002-03-19
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-795-795-6

Query Match   100.0%; Score 55; DB 33; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0075;
Matches   10; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYFIAAEEV 10
             ||||||||||
Db   1 WEYFIAAEEV 10

RESULT 2
PCT-US04-21487A-24
; Sequence 24, Application PC/TUS0421487A
; GENERAL INFORMATION:
; APPLICANT: Kalafatis, Michael
; TITLE OF INVENTION: EXOSITE-DIRECTED THROMBIN INHIBITORS
; FILE REFERENCE: CLEV 200023
; CURRENT APPLICATION NUMBER: PCT/US04/21487A
; CURRENT FILING DATE: 2004-07-01
; PRIOR APPLICATION NUMBER: US 60/502,186
; PRIOR FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-21487A-24

Query Match   80.0%; Score 44; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 6.4e+06;
Matches   9; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 EYFIAAEEV 10
             |||||||||
Db   1 EYFIAAEEV 9

RESULT 3
US-10-795-795-5
; Sequence 5, Application US/10795795
; GENERAL INFORMATION:
; APPLICANT: Cleveland State University
; APPLICANT: Kalafatis, Michael
; APPLICANT: Mann, Kenneth G.
; TITLE OF INVENTION: Thrombin Generation Inhibitor
; FILE REFERENCE: 27433/04004
; CURRENT APPLICATION NUMBER: US/10/795,795
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/911,129B
; PRIOR FILING DATE: 2002-03-19
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-795-795-5

Query Match   60.0%; Score 33; DB 33; Length 10;
Best Local Similarity 100.0%; Pred. No. 96;
Matches   5; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYFI 5
             |||||
Db   6 WEYFI 10

RESULT 4
US-10-937-912-105
; Sequence 105, Application US/10937912
; GENERAL INFORMATION:

APPLICANT: Baxter International Inc.
APPLICANT: Johnson, Richard J
APPLICANT: Maves, Shelley A
TITLE OF INVENTION: PEPTIDES THAT INHIBIT COMPLEMENT ACTIVATION
FILE REFERENCE: TR-6067 (BXTR 4017.1)
CURRENT APPLICATION NUMBER: US/10/937,912
CURRENT FILING DATE: 2004-09-10
PRIOR APPLICATION NUMBER: US 60/501,710
PRIOR FILING DATE: 2003-09-10
NUMBER OF SEQ ID NOS: 121
SOFTWARE: PatentIn version 3.1
SEQ ID NO 105
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: complement inhibitor
US-10-937-912-105

Query Match   49.1%; Score 27; DB 35; Length 10;
Best Local Similarity 60.0%; Pred. No. 1.3e+03;
Matches   3; Conservative 2; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYFI 5
             ||:|:|
Db   6 WEFFL 10

RESULT 5
PCT-US04-21487A-25
; Sequence 25, Application PC/TUS0421487A
; GENERAL INFORMATION:
; APPLICANT: Kalafatis, Michael
; TITLE OF INVENTION: EXOSITE-DIRECTED THROMBIN INHIBITORS
; FILE REFERENCE: CLEV 200023
; CURRENT APPLICATION NUMBER: PCT/US04/21487A
; CURRENT FILING DATE: 2004-07-01
; PRIOR APPLICATION NUMBER: US 60/502,186
; PRIOR FILING DATE: 2003-09-12
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 25
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-21487A-25

Query Match   47.3%; Score 26; DB 1; Length 5;
Best Local Similarity 100.0%; Pred. No. 6.4e+06;
Matches   5; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 EYFIA 6
             |||||
Db   1 EYFIA 5

RESULT 6
US-10-353-419A-5
; Sequence 5, Application US/10353419A
; GENERAL INFORMATION:
; APPLICANT: Ryu, Sung-ho
; APPLICANT: Suh, Pann-Ghill
; APPLICANT: Bae, Yoe-Sik
; APPLICANT: Song, Ji-Young
; TITLE OF INVENTION: Immune Modulating Peptides
; FILE REFERENCE: AP34977 072944.0167
; CURRENT APPLICATION NUMBER: US/10/353,419A
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/352,930
; PRIOR FILING DATE: 2002-01-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5

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;     LENGTH: 6
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: Immune-modulating peptide
;     FEATURE:
;     NAME/KEY: MOD_RES
;     LOCATION: 6
;     OTHER INFORMATION: D-Met
US-10-353-419A-5

Query Match     47.3%;   Score 26;   DB 29;   Length 6;
Best Local Similarity   60.0%;   Pred. No. 6.4e+06;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   1;   Gaps   0;

Qy        1 WEYFI 5
            ||| :
Db        1 WEYMV 5

RESULT 7
US-09-458-298-78
; Sequence 78, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
; TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
; FILE REFERENCE: 018623-014600US
; CURRENT APPLICATION NUMBER: US/09/458,298
; CURRENT FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2436
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 78
;     LENGTH: 8
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: Artificial Peptide
US-09-458-298-78

Query Match     47.3%;   Score 26;   DB 18;   Length 8;
Best Local Similarity   75.0%;   Pred. No. 6.4e+06;
Matches   3;   Conservative   1;   Mismatches   1;   Indels   0;   Gaps   0;

Qy        1 WEYF 4
            |:||
Db        5 WQYF 8

RESULT 8
US-09-458-298-454
; Sequence 454, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
;     APPLICANT: Sidney, John
;     APPLICANT: Southwood, Scott
;     APPLICANT: Chesnut, Robert
;     APPLICANT: Celis, Esteban
;     APPLICANT: Keogh, Elissa
;     TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
;     TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
;     FILE REFERENCE: 018623-014600US
;     CURRENT APPLICATION NUMBER: US/09/458,298
;     CURRENT FILING DATE: 1998-12-10
;     PRIOR APPLICATION NUMBER: US 09/189,702
;     PRIOR FILING DATE: 1998-11-10
;     PRIOR APPLICATION NUMBER: US 08/205,713
;     PRIOR FILING DATE: 1994-03-04
;     PRIOR APPLICATION NUMBER: US 08/159,184
;     PRIOR FILING DATE: 1993-11-29
;     PRIOR APPLICATION NUMBER: US 08/073,205
;     PRIOR FILING DATE: 1993-06-04
;     PRIOR APPLICATION NUMBER: US 08/027,146
;     PRIOR FILING DATE: 1993-03-05
;     NUMBER OF SEQ ID NOS: 2436
;     SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 454
;     LENGTH: 8
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: Artificial Peptide
US-09-458-298-454

Query Match     47.3%;   Score 26;   DB 18;   Length 8;
Best Local Similarity   75.0%;   Pred. No. 6.4e+06;
Matches   3;   Conservative   1;   Mismatches   0;   Indels   0;   Gaps   0;

Qy        1 WEYF 4
            |:||
Db        1 WQYF 4

RESULT 9
US-09-458-298-772
; Sequence 772, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
; TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
; FILE REFERENCE: 018623-014600US
; CURRENT APPLICATION NUMBER: US/09/458,298
; CURRENT FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2436
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 772
;     LENGTH: 8
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
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; OTHER INFORMATION: Artificial Peptide
US-09-458-298-772

Query Match             47.3%;  Score 26;  DB 18;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 WEYF 4
         |:||
Db     5 WQYF 8

RESULT 10
US-09-458-298-1276
; Sequence 1276, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
; TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
; FILE REFERENCE: 018623-01460OUS
; CURRENT APPLICATION NUMBER: US/09/458,298
; CURRENT FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2436
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1276
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-09-458-298-1276

Query Match             47.3%;  Score 26;  DB 18;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 WEYF 4
         |:||
Db     5 WQYF 8

RESULT 11
US-09-458-298-1279
; Sequence 1279, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
; TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
; FILE REFERENCE: 018623-01460OUS
; CURRENT APPLICATION NUMBER: US/09/458,298
; CURRENT FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2436
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1279
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-09-458-298-1279

Query Match             47.3%;  Score 26;  DB 18;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 WEYF 4
         |:||
Db     1 WQYF 4

RESULT 12
US-09-458-298-1654
; Sequence 1654, Application US/09458298
; GENERAL INFORMATION:
; APPLICANT: Epimmune
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
; TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
; FILE REFERENCE: 018623-01460OUS
; CURRENT APPLICATION NUMBER: US/09/458,298
; CURRENT FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2436
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1654
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-09-458-298-1654

Query Match             47.3%;  Score 26;  DB 18;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 WEYF 4
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Db          4 WQYF 7
                |:||

RESULT 13
US-09-458-298-1658
; Sequence 1658, Application US/09458298
; GENERAL INFORMATION:
;   APPLICANT: Epimmune
;   APPLICANT: Fikes, John
;   APPLICANT: Sette, Alessandro
;   APPLICANT: Sidney, John
;   APPLICANT: Southwood, Scott
;   APPLICANT: Chesnut, Robert
;   APPLICANT: Celis, Esteban
;   APPLICANT: Keogh, Elissa
;   TITLE OF INVENTION: INDUCING CELLULAR IMMUNE RESPONSES TO
;   TITLE OF INVENTION: MAGE2/3 USING PEPTIDE AND NUCLEIC ACID COMPOSITIONS
;   FILE REFERENCE: 018623-014600US
;   CURRENT APPLICATION NUMBER: US/09/458,298
;   CURRENT FILING DATE: 1998-12-10
;   PRIOR APPLICATION NUMBER: US 09/189,702
;   PRIOR FILING DATE: 1998-11-10
;   PRIOR APPLICATION NUMBER: US 08/205,713
;   PRIOR FILING DATE: 1994-03-04
;   PRIOR APPLICATION NUMBER: US 08/159,184
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: US 08/073,205
;   PRIOR FILING DATE: 1993-06-04
;   PRIOR APPLICATION NUMBER: US 08/027,146
;   PRIOR FILING DATE: 1993-03-05
;   NUMBER OF SEQ ID NOS: 2436
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1658
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial Peptide
US-09-458-298-1658

Query Match         47.3%;    Score 26;    DB 18;    Length 8;
Best Local Similarity    75.0%;    Pred. No. 6.4e+06;
Matches   3;   Conservative   1;  Mismatches   1;   Indels   0;   Gaps   , 0;

Qy          1 WEYF 4
                |:||
Db          5 WQYF 8


RESULT 14
US-09-458-298A-78
; Sequence 78, Application US/09458298A
; GENERAL INFORMATION:
;   APPLICANT: Fikes, John
;   APPLICANT: Sette, Alessandro
;   APPLICANT: Sidney, John
;   APPLICANT: Southwood, Scott
;   APPLICANT: Chesnut, Robert
;   APPLICANT: Celis, Esteban
;   APPLICANT: Keogh, Elissa
;   TITLE OF INVENTION: Inducing Cellular Immune Responses to
;   TITLE OF INVENTION: Mage2/3 Using Peptide and Nucleic Acid Compositions
;   FILE REFERENCE: 2060.0130000
;   CURRENT APPLICATION NUMBER: US/09/458,298A
;   CURRENT FILING DATE: 1999-12-10
;   PRIOR APPLICATION NUMBER: US 09/189,702
;   PRIOR FILING DATE: 1998-11-10
;   PRIOR APPLICATION NUMBER: US 08/205,713
;   PRIOR FILING DATE: 1994-03-04
;   PRIOR APPLICATION NUMBER: US 08/159,184
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: US 08/073,205
;   PRIOR FILING DATE: 1993-06-04
;   PRIOR APPLICATION NUMBER: US 08/027,146
;   PRIOR FILING DATE: 1993-03-05
;   NUMBER OF SEQ ID NOS: 2438
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial Peptide
US-09-458-298A-78

Query Match         47.3%;    Score 26;    DB 18;    Length 8;
Best Local Similarity    75.0%;    Pred. No. 6.4e+06;
Matches   3;   Conservative   1;  Mismatches   1;   Indels   0;   Gaps   0;

Qy          1 WEYF 4
                |:||
Db          5 WQYF 8


RESULT 15
US-09-458-298A-454
; Sequence 454, Application US/09458298A
; GENERAL INFORMATION:
;   APPLICANT: Fikes, John
;   APPLICANT: Sette, Alessandro
;   APPLICANT: Sidney, John
;   APPLICANT: Southwood, Scott
;   APPLICANT: Chesnut, Robert
;   APPLICANT: Celis, Esteban
;   APPLICANT: Keogh, Elissa
;   TITLE OF INVENTION: Inducing Cellular Immune Responses to
;   TITLE OF INVENTION: Mage2/3 Using Peptide and Nucleic Acid Compositions
;   FILE REFERENCE: 2060.0130000
;   CURRENT APPLICATION NUMBER: US/09/458,298A
;   CURRENT FILING DATE: 1999-12-10
;   PRIOR APPLICATION NUMBER: US 09/189,702
;   PRIOR FILING DATE: 1998-11-10
;   PRIOR APPLICATION NUMBER: US 08/205,713
;   PRIOR FILING DATE: 1994-03-04
;   PRIOR APPLICATION NUMBER: US 08/159,184
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: US 08/073,205
;   PRIOR FILING DATE: 1993-06-04
;   PRIOR APPLICATION NUMBER: US 08/027,146
;   PRIOR FILING DATE: 1993-03-05
;   NUMBER OF SEQ ID NOS: 2438
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 454
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial Peptide
US-09-458-298A-454

Query Match         47.3%;    Score 26;    DB 18;    Length 8;
Best Local Similarity    75.0%;    Pred. No. 6.4e+06;
Matches   3;   Conservative   1;  Mismatches   1;   Indels   0;   Gaps   0;

Qy          1 WEYF 4
                |:||
Db          1 WQYF 4


Search completed: September 16, 2005, 12:10:49
Job time : 445 secs
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                    GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:          September 16, 2005, 11:57:54 ; Search time 152 Seconds
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Title:           US-10-795-795-6
Perfect score:   55
Sequence:        1 WEYFIAAEEV 10

Scoring table:   BLOSUM62
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Searched:        181204 seqs, 404927589 residues

Total number of hits satisfying chosen parameters:        219186

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
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         21: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
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         22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	Length	DB ID	Description
1	55	100.0	10	10	US-09-911-129B-6	Sequence 6, Appli
2	55	100.0	16	16	US-10-795-795-6	Sequence 6, Appli
3	33	60.0	10	10	US-09-911-129B-5	Sequence 5, Appli
4	33	60.0	16	16	US-10-795-795-5	Sequence 5, Appli
5	29	52.7	9	9	US-09-748-451-19	Sequence 19, Appl
6	27	49.1	10	17	US-10-937-912-105	Sequence 105, App
7	26	47.3	8	15	US-10-353-419A-5	Sequence 5, Appl
8	26	47.3	8	15	US-10-149-135-78	Sequence 78, Appl
9	26	47.3	8	15	US-10-149-135-454	Sequence 454, App
10	26	47.3	8	15	US-10-149-135-772	Sequence 772, App
11	26	47.3	8	15	US-10-149-135-1276	Sequence 1276, Ap

12	26	47.3	8	15	US-10-149-135-1279	Sequence 1279, Ap
13	26	47.3	8	15	US-10-149-135-1654	Sequence 1654, Ap
14	26	47.3	8	15	US-10-149-135-1658	Sequence 1658, Ap
15	26	47.3	9	14	US-10-062-109A-101	Sequence 101, App
16	26	47.3	9	14	US-10-062-109A-372	Sequence 372, App
17	26	47.3	9	14	US-10-062-109A-657	Sequence 657, App
18	26	47.3	9	14	US-10-005-480A-101	Sequence 101, App
19	26	47.3	9	14	US-10-005-480A-372	Sequence 372, APP
20	26	47.3	9	14	US-10-005-480A-657	Sequence 657, APP
21	26	47.3	9	15	US-10-447-161-26	Sequence 26, Appl
22	26	47.3	9	15	US-10-149-135-74	Sequence 74, Appl
23	26	47.3	9	15	US-10-149-135-79	Sequence 79, Appl
24	26	47.3	9	15	US-10-149-135-732	Sequence 732, App
25	26	47.3	9	15	US-10-149-135-759	Sequence 759, App
26	26	47.3	9	15	US-10-149-135-773	Sequence 773, App
27	26	47.3	9	15	US-10-149-135-1266	Sequence 1266, Ap
28	26	47.3	9	15	US-10-149-135-1277	Sequence 1277, App
29	26	47.3	9	15	US-10-149-135-1280	Sequence 1280, App
30	26	47.3	9	15	US-10-149-135-1642	Sequence 1642, Ap
31	26	47.3	9	15	US-10-149-135-1659	Sequence 1659, Ap
32	26	47.3	9	15	US-10-149-135-1904	Sequence 1904, Ap
33	26	47.3	9	15	US-10-149-135-2144	Sequence 2144, Ap
34	26	47.3	10	14	US-10-062-109A-151	Sequence 151, App
35	26	47.3	10	14	US-10-062-109A-207	Sequence 207, App
36	26	47.3	10	14	US-10-062-109A-421	Sequence 421, App
37	26	47.3	10	14	US-10-062-109A-545	Sequence 545, App
38	26	47.3	10	14	US-10-062-109A-637	Sequence 637, App
39	26	47.3	10	14	US-10-005-480A-151	Sequence 151, App
40	26	47.3	10	14	US-10-005-480A-207	Sequence 207, App
41	26	47.3	10	14	US-10-005-480A-421	Sequence 421, App
42	26	47.3	10	14	US-10-005-480A-545	Sequence 545, App
43	26	47.3	10	14	US-10-005-480A-637	Sequence 637, App
44	26	47.3	10	15	US-10-149-135-50	Sequence 50, Appl
45	26	47.3	10	15	US-10-149-135-75	Sequence 75, Appl

ALIGNMENTS

RESULT 1
US-09-911-129B-6
; Sequence 6, Application US/09911129B
; Publication No. US2003004060 0A1
; GENERAL INFORMATION:
; APPLICANT: Cleveland State University
; APPLICANT: Kalafatis, Michael
; APPLICANT: Mann, Kenneth G.
; TITLE OF INVENTION: Thrombin Generation Inhibitor
; FILE REFERENCE: 27433/04004
; CURRENT APPLICATION NUMBER: US/09/911,129B
; CURRENT FILING DATE: 2002-03-19
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patentin version 3.1
US-09-911-129B-6

; SEQ ID NO 6
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-911-129B-6

Query Match   100.0%; Score 55; DB 10; Length 10;
Best Local Similarity   100.0%; Pred. No. 0.0038;
Matches   10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 WEYFIAAEEV 10
             ||||||||||
Db   1 WEYFIAAEEV 10

RESULT 2
US-10-795-795-6
; Sequence 6, Application US/10795795
; Publication No. US20040186271A1
; GENERAL INFORMATION:

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;       APPLICANT: Cleveland State University
;       APPLICANT: Kalafatis, Michael
;       APPLICANT: Mann, Kenneth G.
;       TITLE OF INVENTION: Thrombin Generation Inhibitor
;       FILE REFERENCE: 27433/04004
;       CURRENT APPLICATION NUMBER: US/10/795,795
;       CURRENT FILING DATE: 2004-03-08
;       PRIOR APPLICATION NUMBER: US/09/911,129B
;       PRIOR FILING DATE: 2002-03-19
;       NUMBER OF SEQ ID NOS: 17
;       SOFTWARE: PatentIn version 3.1
;       SEQ ID NO 6
;       LENGTH: 10
;       TYPE: PRT
;       ORGANISM: Homo sapiens
US-10-795-795-6

Query Match         100.0%;  Score 55;  DB 16;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 0.0038;
Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 WEYFIAAEEV 10
          ||||||||||
Db      1 WEYFIAAEEV 10

RESULT 3
US-09-911-129B-5
; Sequence 5, Application US/09911129B
; Publication No. US20030040600A1
; GENERAL INFORMATION:
;       APPLICANT: Cleveland State University
;       APPLICANT: Kalafatis, Michael
;       APPLICANT: Mann, Kenneth G.
;       TITLE OF INVENTION: Thrombin Generation Inhibitor
;       FILE REFERENCE: 27433/04004
;       CURRENT APPLICATION NUMBER: US/09/911,129B
;       CURRENT FILING DATE: 2002-03-19
;       NUMBER OF SEQ ID NOS: 17
;       SOFTWARE: PatentIn version 3.1
;       SEQ ID NO 5
;       LENGTH: 10
;       TYPE: PRT
;       ORGANISM: Homo sapiens
US-09-911-129B-5

Query Match          60.0%;  Score 33;  DB 10;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 37;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 WEYFI 5
          |||||
Db      6 WEYFI 10

RESULT 4
US-10-795-795-5
; Sequence 5, Application US/10795795
; Publication No. US20040018271A1
; GENERAL INFORMATION:
;       APPLICANT: Cleveland State University
;       APPLICANT: Kalafatis, Michael
;       APPLICANT: Mann, Kenneth G.
;       TITLE OF INVENTION: Thrombin Generation Inhibitor
;       FILE REFERENCE: 27433/04004
;       CURRENT APPLICATION NUMBER: US/10/795,795
;       CURRENT FILING DATE: 2004-03-08
;       PRIOR APPLICATION NUMBER: US/09/911,129B
;       PRIOR FILING DATE: 2002-03-19
;       NUMBER OF SEQ ID NOS: 17
;       SOFTWARE: PatentIn version 3.1
;       SEQ ID NO 5
;       LENGTH: 10
;       TYPE: PRT
;       ORGANISM: Homo sapiens
US-10-795-795-5

Query Match          60.0%;  Score 33;  DB 16;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 37;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 WEYFI 5
          |||||
Db      6 WEYFI 10

RESULT 5
US-09-748-451-19
; Sequence 19, Application US/09748451
; Patent No. US20010011078A1
; GENERAL INFORMATION:
;       APPLICANT: WANG, XIAODONG
;       APPLICANT: LIU, XUESONG
;       TITLE OF INVENTION: DNA FRAGMENTATION FACTOR INVOLVED IN APOPTOSIS
;       FILE REFERENCE: UT5D:546USD1
;       CURRENT APPLICATION NUMBER: US/09/748,451
;       CURRENT FILING DATE: 2000-12-22
;       PRIOR APPLICATION NUMBER: 09/061,702
;       PRIOR FILING DATE: 1998-04-16
;       NUMBER OF SEQ ID NOS: 21
;       SOFTWARE: PatentIn Ver. 2.1
;       SEQ ID NO 19
;       LENGTH: 9
;       TYPE: PRT
;       ORGANISM: Mus musculus
US-09-748-451-19

Query Match          52.7%;  Score 29;  DB 9;  Length 9;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 WEYF 4
          ||||
Db      4 WEYF 7

RESULT 6
US-10-937-912-105
; Sequence 105, Application US/10937912
; Publication No. US20050090448A1
; GENERAL INFORMATION:
;       APPLICANT: Baxter International Inc.
;       APPLICANT: Johnson, Richard J
;       APPLICANT: Maves, Shelley A
;       TITLE OF INVENTION: PEPTIDES THAT INHIBIT COMPLEMENT ACTIVATION
;       FILE REFERENCE: TR-6067 (BXTR 4017.1)
;       CURRENT APPLICATION NUMBER: US/10/937,912
;       CURRENT FILING DATE: 2004-09-10
;       PRIOR APPLICATION NUMBER: US 60/501,710
;       PRIOR FILING DATE: 2003-09-10
;       NUMBER OF SEQ ID NOS: 121
;       SOFTWARE: PatentIn version 3.1
;       SEQ ID NO 105
;       TYPE: PRT
;       ORGANISM: Artificial Sequence
;       FEATURE:
;       OTHER INFORMATION: complement inhibitor
US-10-937-912-105

Query Match          49.1%;  Score 27;  DB 17;  Length 10;
Best Local Similarity   60.0%;  Pred. No. 4.5e+02;
Matches    3;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy      1 WEYFI 5
          ||:|:
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Db   6 WEFPL 10

RESULT 7
US-10-353-419A-5
; Sequence 5, Application US/10353419A
; Publication No. US2003022498 7A1
; GENERAL INFORMATION:
;   APPLICANT: Ryu, Sung-ho
;   APPLICANT: Suh, Pann-Ghill
;   APPLICANT: Bae, Yoe-Sik
;   APPLICANT: Song, Ji-Young
;   TITLE OF INVENTION: Immune Modulating Peptides
;   FILE REFERENCE: AP34977 072944.0167
;   CURRENT APPLICATION NUMBER: US/10/353,419A
;   CURRENT FILING DATE: 2003-01-29
;   PRIOR APPLICATION NUMBER: 60/352,930
;   PRIOR FILING DATE: 2002-01-29
;   NUMBER OF SEQ ID NOS: 24
;   SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 6
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Immune-modulating peptide
;   FEATURE:
;   NAME/KEY: MOD_RES
;   LOCATION: 6
;   OTHER INFORMATION: D-Met
US-10-353-419A-5

Query Match   47.3%; Score 26; DB 15; Length 6;
Best Local Similarity   60.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   1; Indels   1; Gaps   0;

Qy   1 WEYFI 5
            ||| :
Db   1 WEYMV 5

RESULT 8
US-10-149-135-78
; Sequence 78, Application US/10149135
; Publication No. US2004005382 2A1
; GENERAL INFORMATION:
;   APPLICANT: Fikes, John
;   APPLICANT: Sette, Alessandro
;   APPLICANT: Sidney, John
;   APPLICANT: Southwood, Scott
;   APPLICANT: Chesnut, Robert
;   APPLICANT: Celis, Esteban
;   APPLICANT: Keogh, Elissa
;   TITLE OF INVENTION: Inducing Cellular Immune Responses to
;   TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
;   FILE REFERENCE: 2060.0130001
;   CURRENT APPLICATION NUMBER: US/10/149,135
;   CURRENT FILING DATE: 2000-12-11
;   PRIOR APPLICATION NUMBER: PCT/US00/33545
;   PRIOR FILING DATE: 2000-12-11
;   PRIOR APPLICATION NUMBER: US 09/458,298
;   PRIOR FILING DATE: 1999-12-10
;   PRIOR APPLICATION NUMBER: US 09/189,702
;   PRIOR FILING DATE: 1998-11-10
;   PRIOR APPLICATION NUMBER: US 08/205,713
;   PRIOR FILING DATE: 1994-03-04
;   PRIOR APPLICATION NUMBER: US 08/159,184
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: US 08/073,205
;   PRIOR FILING DATE: 1993-06-04
;   PRIOR APPLICATION NUMBER: US 08/027,146
;   PRIOR FILING DATE: 1993-03-05
;   NUMBER OF SEQ ID NOS: 2479

;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial Peptide
US-10-149-135-78

Query Match   47.3%; Score 26; DB 15; Length 8;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
            |:||
Db   5 WQYF 8

RESULT 9
US-10-149-135-454
; Sequence 454, Application US/10149135
; Publication No. US2004005382 2A1
; GENERAL INFORMATION:
;   APPLICANT: Fikes, John
;   APPLICANT: Sette, Alessandro
;   APPLICANT: Sidney, John
;   APPLICANT: Southwood, Scott
;   APPLICANT: Chesnut, Robert
;   APPLICANT: Celis, Esteban
;   APPLICANT: Keogh, Elissa
;   TITLE OF INVENTION: Inducing Cellular Immune Responses to
;   TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
;   FILE REFERENCE: 2060.0130001
;   CURRENT APPLICATION NUMBER: US/10/149,135
;   CURRENT FILING DATE: 2000-12-11
;   PRIOR APPLICATION NUMBER: PCT/US00/33545
;   PRIOR FILING DATE: 2000-12-11
;   PRIOR APPLICATION NUMBER: US 09/458,298
;   PRIOR FILING DATE: 1999-12-10
;   PRIOR APPLICATION NUMBER: US 09/189,702
;   PRIOR FILING DATE: 1998-11-10
;   PRIOR APPLICATION NUMBER: US 08/205,713
;   PRIOR FILING DATE: 1994-03-04
;   PRIOR APPLICATION NUMBER: US 08/159,184
;   PRIOR FILING DATE: 1993-11-29
;   PRIOR APPLICATION NUMBER: US 08/073,205
;   PRIOR FILING DATE: 1993-06-04
;   PRIOR APPLICATION NUMBER: US 08/027,146
;   PRIOR FILING DATE: 1993-03-05
;   NUMBER OF SEQ ID NOS: 2479
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 454
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Artificial Peptide
US-10-149-135-454

Query Match   47.3%; Score 26; DB 15; Length 8;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   1; Indels   .0; Gaps   0;

Qy   1 WEYF 4
            |:||
Db   1 WQYF 4

RESULT 10
US-10-149-135-772
; Sequence 772, Application US/10149135
; Publication No. US2004005382 2A1
; GENERAL INFORMATION:

```
    ;   APPLICANT: Fikes, John
    "   APPLICANT: Sette, Alessandro
    "   APPLICANT: Sidney, John
    "   APPLICANT: Southwood, Scott
    "   APPLICANT: Chesnut, Robert
    "   APPLICANT: Celis, Esteban
    "   APPLICANT: Keogh, Elissa
    "   TITLE OF INVENTION: Inducing Cellular Immune Responses to
    "   TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
    "   FILE REFERENCE: 2060.0130001
    "   CURRENT APPLICATION NUMBER: US/10/149,135
    "   CURRENT FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: PCT/US00/33545
    "   PRIOR FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: US 09/458,298
    "   PRIOR FILING DATE: 1999-12-10
    "   PRIOR APPLICATION NUMBER: US 09/189,702
    "   PRIOR FILING DATE: 1998-11-10
    "   PRIOR APPLICATION NUMBER: US 08/205,713
    "   PRIOR FILING DATE: 1994-03-04
    "   PRIOR APPLICATION NUMBER: US 08/159,184
    "   PRIOR FILING DATE: 1993-11-29
    "   PRIOR APPLICATION NUMBER: US 08/073,205
    "   PRIOR FILING DATE: 1993-06-04
    "   PRIOR APPLICATION NUMBER: US 08/027,146
    "   PRIOR FILING DATE: 1993-03-05
    "   NUMBER OF SEQ ID NOS: 2479
    "   SOFTWARE: PatentIn version 3.1
    ;   SEQ ID NO 772
    "   LENGTH: 8
    "   TYPE: PRT
    "   ORGANISM: Artificial Sequence
    "   FEATURE:
    ;   OTHER INFORMATION: Artificial Peptide
    US-10-149-135-772

    Query Match             47.3%;  Score 26;  DB 15;  Length 8;
    Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
    Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

    Qy          1 WEYF 4
                  |:||
    Db          5 WQYF 8


    RESULT 11
    US-10-149-135-1276
    ;  Sequence 1276, Application US/10149135
    ;  Publication No. US20040053822A1
    ;  GENERAL INFORMATION:
    "   APPLICANT: Fikes, John
    "   APPLICANT: Sette, Alessandro
    "   APPLICANT: Sidney, John
    "   APPLICANT: Southwood, Scott
    "   APPLICANT: Chesnut, Robert
    "   APPLICANT: Celis, Esteban
    "   APPLICANT: Keogh, Elissa
    "   TITLE OF INVENTION: Inducing Cellular Immune Responses to
    "   TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
    "   FILE REFERENCE: 2060.0130001
    "   CURRENT APPLICATION NUMBER: US/10/149,135
    "   CURRENT FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: PCT/US00/33545
    "   PRIOR FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: US 09/458,298
    "   PRIOR FILING DATE: 1999-12-10
    "   PRIOR APPLICATION NUMBER: US 09/189,702
    "   PRIOR FILING DATE: 1998-11-10
    "   PRIOR APPLICATION NUMBER: US 08/205,713
    "   PRIOR FILING DATE: 1994-03-04
    "   PRIOR APPLICATION NUMBER: US 08/159,184
    "   PRIOR FILING DATE: 1993-11-29
    "   PRIOR APPLICATION NUMBER: US 08/073,205
    "   PRIOR FILING DATE: 1993-06-04
    "   PRIOR APPLICATION NUMBER: US 08/027,146
    "   PRIOR FILING DATE: 1993-03-05
    "   NUMBER OF SEQ ID NOS: 2479
    "   SOFTWARE: PatentIn version 3.1
    ;   SEQ ID NO 1276
    "   LENGTH: 8
    "   TYPE: PRT
    "   ORGANISM: Artificial Sequence
    "   FEATURE:
    ;   OTHER INFORMATION: Artificial Peptide
    US-10-149-135-1276

    Query Match             47.3%;  Score 26;  DB 15;  Length 8;
    Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
    Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

    Qy          1 WEYF 4
                  |:||
    Db          5 WQYF 8


    RESULT 12
    US-10-149-135-1279
    ;  Sequence 1279, Application US/10149135
    ;  Publication No. US20040053822A1
    ;  GENERAL INFORMATION:
    "   APPLICANT: Fikes, John
    "   APPLICANT: Sette, Alessandro
    "   APPLICANT: Sidney, John
    "   APPLICANT: Southwood, Scott
    "   APPLICANT: Chesnut, Robert
    "   APPLICANT: Celis, Esteban
    "   APPLICANT: Keogh, Elissa
    "   TITLE OF INVENTION: Inducing Cellular Immune Responses to
    "   TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
    "   FILE REFERENCE: 2060.0130001
    "   CURRENT APPLICATION NUMBER: US/10/149,135
    "   CURRENT FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: PCT/US00/33545
    "   PRIOR FILING DATE: 2000-12-11
    "   PRIOR APPLICATION NUMBER: US 09/458,298
    "   PRIOR FILING DATE: 1999-12-10
    "   PRIOR APPLICATION NUMBER: US 09/189,702
    "   PRIOR FILING DATE: 1998-11-10
    "   PRIOR APPLICATION NUMBER: US 08/205,713
    "   PRIOR FILING DATE: 1994-03-04
    "   PRIOR APPLICATION NUMBER: US 08/159,184
    "   PRIOR FILING DATE: 1993-11-29
    "   PRIOR APPLICATION NUMBER: US 08/073,205
    "   PRIOR FILING DATE: 1993-06-04
    "   PRIOR APPLICATION NUMBER: US 08/027,146
    "   PRIOR FILING DATE: 1993-03-05
    "   NUMBER OF SEQ ID NOS: 2479
    "   SOFTWARE: PatentIn version 3.1
    ;   SEQ ID NO 1279
    "   LENGTH: 8
    "   TYPE: PRT
    "   ORGANISM: Artificial Sequence
    "   FEATURE:
    ;   OTHER INFORMATION: Artificial Peptide
    US-10-149-135-1279

    Query Match             47.3%;  Score 26;  DB 15;  Length 8;
    Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
    Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

    Qy          1 WEYF 4
                  |:||
    Db          1 WQYF 4


    RESULT 13
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US-10-149-135-1654
; Sequence 1654, Application US/10149135
; Publication No. US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/155,184
; PRIOR FILING DATE: 1993-11-29
; NUMBER OF SEQ ID NOS: 2479
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1654
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-10-149-135-1654

Query Match   47.3%; Score 26; DB 15; Length 8;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:||
Db   4 WQYF 7

RESULT 14
US-10-149-135-1658
; Sequence 1658, Application US/10149135
; Publication No.US20040053822A1
; GENERAL INFORMATION:
; APPLICANT: Fikes, John
; APPLICANT: Sette, Alessandro
; APPLICANT: Sidney, John
; APPLICANT: Southwood, Scott
; APPLICANT: Chesnut, Robert
; APPLICANT: Celis, Esteban
; APPLICANT: Keogh, Elissa
; TITLE OF INVENTION: Inducing Cellular Immune Responses to
; TITLE OF INVENTION: MAGE2/3 Using Peptide and Nucleic Acid Compositions
; FILE REFERENCE: 2060.0130001
; CURRENT APPLICATION NUMBER: US/10/149,135
; CURRENT FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/US00/33545
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: US 09/458,298
; PRIOR FILING DATE: 1999-12-10
; PRIOR APPLICATION NUMBER: US 09/189,702
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: US 08/205,713
; PRIOR FILING DATE: 1994-03-04
; PRIOR APPLICATION NUMBER: US 08/159,184
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: US 08/073,205
; PRIOR FILING DATE: 1993-06-04
; PRIOR APPLICATION NUMBER: US 08/027,146
; PRIOR FILING DATE: 1993-03-05
; NUMBER OF SEQ ID NOS: 2479
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1658
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Peptide
US-10-149-135-1658

Query Match   47.3%; Score 26; DB 15; Length 8;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:||
Db   5 WQYF 8

RESULT 15
US-10-062-109A-101
; Sequence 101, Application US/10062109A
; Publication No. US2003016505A1
; GENERAL INFORMATION:
; APPLICANT: Agensys
; APPLICANT: Challita-Eid, Pia M.
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Faris, Mary
; APPLICANT: Hubert, Rene S.
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Jakobovits, Aya
; TITLE OF INVENTION: Nucleic Acid and Corresponding Protein
; TITLE OF INVENTION: Entitled 161P2F10B Useful in Treatment and Detection of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: 51158-20062.01
; CURRENT APPLICATION NUMBER: US/10/062,109A
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: US 10/005,480
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 765
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-062-109A-101

Query Match   47.3%; Score 26; DB 14; Length 9;
Best Local Similarity   75.0%; Pred. No. 1.6e+06;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:||
Db   3 WDYF 6

Search completed: September 16, 2005, 12:16:26
Job time : 153 secs

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                    GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:          September 16, 2005, 11:46:58 ; Search time 38.6667 Seconds
                                               (without alignments)
                                               19.306 Million cell updates/sec

Title:           US-10-795-795-6
Perfect score:   55
Sequence:        1 WEYFIAAEEV 10

Scoring table:   BLOSUM62
                 Gapop 10.0 , Gapext 0.5

Searched:        513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters:        115489

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Issued Patents AA:*
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                 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
                 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
                 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
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                 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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SUMMARIES

Result No.	Score	% Query Match	Query Match Length	DB Seq Length	DB	ID	Description
1	55	100.0	10	10	4	US-09-911-129B-6	Sequence 6, Appli
2	33	60.0	10	10	4	US-09-911-129B-5	Sequence 5, Appli
3	29	52.7	9	9	3	US-09-061-702-19	Sequence 19, Appli
4	29	52.7	9	9	4	US-09-748-451-19	Sequence 19, Appl
5	26	47.3	8	8	3	US-08-649-100-23	Sequence 23, Appl
6	26	47.3	8	8	3	US-08-649-100-39	Sequence 39, Appl
7	26	47.3	9	9	3	US-08-159-339A-1218	Sequence 1218, Appl
8	26	47.3	10	10	3	US-08-159-339A-1219	Sequence 1219, Ap
9	25	45.5	6	6	1	US-08-121-202-8	Sequence 8, Appli
10	24	43.6	4	4	3	US-09-315-304B-1565	Sequence 1565, Ap
11	24	43.6	4	4	4	US-09-350-325-25	Sequence 25, Appl
12	24	43.6	4	4	4	US-09-350-641C-1565	Sequence 1565, Ap
13	24	43.6	5	5	1	US-08-068-947-2	Sequence 2, Appli
14	24	43.6	5	5	4	US-09-315-304B-1566	Sequence 1566, Ap
15	24	43.6	5	5	4	US-09-350-325-26	Sequence 26, Appl
16	24	43.6	5	5	4	US-09-350-641C-1566	Sequence 1566, Ap
17	24	43.6	6	6	1	US-08-433-318A-14	Sequence 14, Appl
18	24	43.6	6	6	1	US-08-433-318A-15	Sequence 15, Appl
19	24	43.6	6	6	1	US-08-433-318A-16	Sequence 16, Appl
20	24	43.6	6	6	1	US-08-433-318A-17	Sequence 17, Appl
21	24	43.6	6	6	2	US-08-922-048-14	Sequence 14, Appl
22	24	43.6	6	6	2	US-08-922-048-15	Sequence 15, Appl
23	24	43.6	6	6	2	US-08-922-048-16	Sequence 16, Appl
24	24	43.6	6	6	2	US-08-922-048-17	Sequence 17, Appl
25	24	43.6	6	6	3	US-09-315-304B-1567	Sequence 1567, Ap
26	24	43.6	6	6	3	US-09-315-304B-1583	Sequence 1583, Ap
27	24	43.6	6	6	3	US-09-315-304B-1586	Sequence 1586, Ap
28	24	43.6	6	6	4	US-09-111-681C-30	Sequence 30, Appl
29	24	43.6	6	6	4	US-09-111-681C-31	Sequence 31, Appl
30	24	43.6	6	6	4	US-09-111-681C-32	Sequence 32, Appl
31	24	43.6	6	6	4	US-09-111-681C-33	Sequence 33, Appl
32	24	43.6	6	6	4	US-09-350-325-27	Sequence 27, Appl
33	24	43.6	6	6	4	US-09-350-325-43	Sequence 43, Appl
34	24	43.6	6	6	4	US-09-350-325-46	Sequence 46, Appl
35	24	43.6	6	6	4	US-09-350-641C-1567	Sequence 1567, Ap
36	24	43.6	6	6	4	US-09-350-641C-1583	Sequence 1583, Ap
37	24	43.6	6	6	4	US-09-350-641C-1586	Sequence 1586, Ap
38	24	43.6	6	6	5	PCT-US96-06270-14	Sequence 14, Appl
39	24	43.6	6	6	5	PCT-US96-06270-15	Sequence 15, Appl
40	24	43.6	6	6	5	PCT-US96-06270-16	Sequence 16, Appl
41	24	43.6	6	6	5	PCT-US96-06270-17	Sequence 17, Appl
42	24	43.6	7	7	2	US-08-188-583-45	Sequence 45, Appl
43	24	43.6	8	8	2	US-08-188-583-50	Sequence 50, Appl
44	24	43.6	8	8	3	US-09-082-279B-1433	Sequence 1433, Ap
45	24	43.6	8	8	3	US-09-082-279B-1474	Sequence 1474, Ap

ALIGNMENTS

```
RESULT 1
US-09-911-129B-6
; Sequence 6, Application US/09911129B
; Patent No. 6703364
; GENERAL INFORMATION:
;   APPLICANT: Cleveland State University
;   APPLICANT: Kalafatis, Michael
;   APPLICANT: Mann, Kenneth G.
;   TITLE OF INVENTION: Thrombin Generation Inhibitor
;   FILE REFERENCE: 27433/04004
;   CURRENT APPLICATION NUMBER: US/09/911,129B
;   CURRENT FILING DATE: 2002-03-19
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-911-129B-6

  Query Match             100.0%;  Score 55;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.00025;
  Matches   10;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 WEYFIAAEEV 10
              ||||||||||
Db          1 WEYFIAAEEV 10


RESULT 2
US-09-911-129B-5
; Sequence 5, Application US/09911129B
; Patent No. 6703364
; GENERAL INFORMATION:
;   APPLICANT: Cleveland State University
;   APPLICANT: Kalafatis, Michael
;   APPLICANT: Mann, Kenneth G.
;   TITLE OF INVENTION: Thrombin Generation Inhibitor
;   FILE REFERENCE: 27433/04004
;   CURRENT APPLICATION NUMBER: US/09/911,129B
;   CURRENT FILING DATE: 2002-03-19
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-911-129B-5

  Query Match              60.0%;  Score 33;  DB 4;  Length 10;
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Best Local Similarity   100.0%;   Pred. No. 4.1.;
Matches 5; Conservative 0; Mismatches 0;   Indels 0; Gaps 0;

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Qy    1 WEYFI 5
        |||||
Db    6 WEYFI 10
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RESULT 3
US-09-061-702-19
; Sequence 19, Application US/09061702
; Patent No. 6165737
; GENERAL INFORMATION:
;   APPLICANT: Wang, Xiaodong
;   APPLICANT: Liu, Xuesong
;   TITLE OF INVENTION: DNA FRAGMENTATION FACTOR INVOLVED IN
;   TITLE OF INVENTION: APOPTOSIS
;   NUMBER OF SEQUENCES: 21
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Arnold, White & Durkee
;   STREET: P.O. Box 4433
;   CITY: Houston
;   STATE: TX
;   COUNTRY: USA
;   ZIP: 77210-4433
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/061,702
;   FILING DATE: Concurrently Herewith
;   CLASSIFICATION:
;   ATTORNEY/AGENT INFORMATION:
;   NAME: McMillian, Nabeela R.
;   REGISTRATION NUMBER: P-43,363
;   REFERENCE/DOCKET NUMBER: UTSD:546
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (512)418-3000
;   TELEFAX: (512)474-7577
; INFORMATION FOR SEQ ID NO: 19:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
US-09-061-702-19

Query Match   52.7%;   Score 29;   DB 3; Length 9;
Best Local Similarity   100.0%;   Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0;   Indels 0; Gaps 0;

```
Qy    1 WEYF 4
        ||||
Db    4 WEYF 7
```

RESULT 4
US-09-748-451-19
; Sequence 19, Application US/0974845l
; Patent No. 6790648
; GENERAL INFORMATION:
;   APPLICANT: WANG, XIAODONG
;   APPLICANT: LIU, XUESONG
;   TITLE OF INVENTION: DNA FRAGMENTATION FACTOR INVOLVED IN APOPTOSIS
;   FILE REFERENCE: UTSD:546USD1
;   CURRENT APPLICATION NUMBER: US/09/748,451
;   CURRENT FILING DATE: 2000-12-22
;   PRIOR APPLICATION NUMBER: 09/061,702
;   PRIOR FILING DATE: 1998-04-16
;   NUMBER OF SEQ ID NOS: 21
;   SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 19
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-748-451-19

Query Match   52.7%;   Score 29;   DB 4; Length 9;
Best Local Similarity   100.0%;   Pred. No. 4.1e+05;
Matches 4; Conservative 0; Mismatches 0;   Indels 0; Gaps 0;

```
Qy    1 WEYF 4
        ||||
Db    4 WEYF 7
```

RESULT 5
US-08-649-100-23
; Sequence 23, Application US/08649100
; Patent No. 6114507
; GENERAL INFORMATION:
;   APPLICANT: SHIRAKAWA, KAMON
;   APPLICANT: MATUSUE, TOMOKAZU
;   APPLICANT: NAGATA, SHIGEKAZU
;   APPLICANT: CO, MAN SUNG
;   APPLICANT: VASQUEZ, MAXIMILIANO
;   TITLE OF INVENTION: ANTI-FAS LIGAND ANTIBODY AND ASSAY
;   TITLE OF INVENTION: METHOD USING THE ANTI-FAS LIGAND ANTIBODY
;   NUMBER OF SEQUENCES: 41
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
;   STREET: PO BOX 747
;   CITY: FALLS CHURCH
;   STATE: VA
;   COUNTRY: USA
;   ZIP: 22040-0747
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/649,100
;   FILING DATE:
;   CLASSIFICATION: 435
;   ATTORNEY/AGENT INFORMATION:
;   NAME: MURPHY JR, GERALD M
;   REGISTRATION NUMBER: 28,977
;   REFERENCE/DOCKET NUMBER: 1110-160
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (703) 205-8000
;   TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 23:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 8 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-08-649-100-23

Query Match   47.3%;   Score 26;   DB 3; Length 8;
Best Local Similarity   75.0%;   Pred. No. 4.1e+05;
Matches 3; Conservative 1; Mismatches 0;   Indels 0; Gaps 0;

```
Qy    1 WEYF 4
        |:||
Db    3 WDYF 6
```

RESULT 6
US-08-649-100-39
; Sequence 39, Application US/08649100
; Patent No. 6114507

GENERAL INFORMATION:
APPLICANT: SHIRAKAWA, KAMON
APPLICANT: MATUSUE, TOMOKAZU
APPLICANT: NAGATA, SHIGEKAZU
APPLICANT: CO, MAN SUNG
APPLICANT: VASQUEZ, MAXIMILIANO
TITLE OF INVENTION: ANTI-FAS LIGAND ANTIBODY AND ASSAY
TITLE OF INVENTION: METHOD USING THE ANTI-FAS LIGAND ANTIBODY
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
STREET: PO BOX 747
CITY: FALLS CHURCH
STATE: VA
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/649,100
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR., GERALD M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1110-160
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-649-100-39

Query Match   47.3%;   Score 26; DB 3; Length 8;
Best Local Similarity 75.0%;   Pred. No. 4.1e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy   1 WEYF 4
        |:||
Db   3 WDYF 6

RESULT 7
US-08-159-339A-1218
; Sequence 1218, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 1218:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1218

Query Match   47.3%;   Score 26; DB 3; Length 9;
Best Local Similarity 75.0%;   Pred. No. 4.1e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy   1 WEYF 4
        |:||
Db   2 WQYF 5

RESULT 8
US-08-159-339A-1219
; Sequence 1219, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993

; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1219:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1219

Query Match   47.3%; Score 26; DB 3; Length 10;
Best Local Similarity 75.0%; Pred. No. 90;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:|:|
Db   2 WQYF 5

RESULT 9
US-08-121-202-8
; Sequence 8, Application US/08121202
; Patent No. 5563045
; GENERAL INFORMATION:
; APPLICANT: Pittman, Debra
; APPLICANT: Rehemtulla, Alnawaz
; APPLICANT: Wozney, John M.
; APPLICANT: Kaufman, Randal J.
; TITLE OF INVENTION: CHIMERIC PROCOAGULANT PROTEINS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Legal Affairs, Genetics Institute, Inc.
; STREET: 87 CambridgePark Drive
; CITY: Cambridge
; STATE: MA
; COUNTRY: USA
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/121,202
; FILING DATE: 14-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meinert, M. C.
; REGISTRATION NUMBER: 31,544
; REFERENCE/DOCKET NUMBER: GI 5195A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)876-1210 X8574
; TELEFAX: (617) 876-5851
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-121-202-8

Query Match   45.5%; Score 25; DB 1; Length 6;
Best Local Similarity 83.3%; Pred. No. 4.1e+05;
Matches   5; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   4 FIAABE 9
              ||:|||
Db   4 FIAABE 9

Db   1 YIRAEE 6
              :|||||

RESULT 10
US-09-315-304B-1565
; Sequence 1565, Application US/09315304B
; Patent No. 6348568
; GENERAL INFORMATION:
; APPLICANT: Barney, S.
; APPLICANT: Guthrie, K.
; APPLICANT: Merutka, G.
; APPLICANT: Anwer, M.
; APPLICANT: Lambert, D.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH ENHANCED PHARMACOKINETIC
; TITLE OF INVENTION: PROPERTIES
; FILE REFERENCE: 7872-052
; CURRENT APPLICATION NUMBER: US/09/315,304B
; CURRENT FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: 09/082,279
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 1667
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1565
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Core polypeptide
US-09-315-304B-1565

Query Match   43.6%; Score 24; DB 3; Length 4;
Best Local Similarity 75.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:|:|
Db   1 WEWF 4

RESULT 11
US-09-350-325-25
; Sequence 25, Application US/09350325
; Patent No. 6541020
; GENERAL INFORMATION:
; APPLICANT: Ding, S.
; APPLICANT: Kang, M.
; APPLICANT: Venetta, T.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ADMINISTRATION OF
; TITLE OF INVENTION: THERAPEUTIC REAGENTS
; FILE REFERENCE: 7872-062
; CURRENT APPLICATION NUMBER: US/09/350,325
; CURRENT FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: enhancer peptide
US-09-350-325-25

Query Match   43.6%; Score 24; DB 4; Length 4;
Best Local Similarity 75.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |:|:|
Db   1 WEWF 4

RESULT 12

US-09-350-641C-1565
; Sequence 1565, Application US/09350641C
; Patent No. 6656906
; GENERAL INFORMATION:
; APPLICANT: Barney, S.
; APPLICANT: Guthrie, K.
; APPLICANT: Merutka, G.
; APPLICANT: Anwer, M.
; APPLICANT: Lambert, D.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH ENHANCED PHARMACOKINETIC
; TITLE OF INVENTION: PROPERTIES
; FILE REFERENCE: 7872-067
; CURRENT APPLICATION NUMBER: US/09/350,641C
; CURRENT FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: 09/315,304
; PRIOR FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: 09/082,279
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 1757
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1565
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Core polypeptide
US-09-350-641C-1565

Query Match   43.6%;   Score 24;   DB 4;   Length 4;
Best Local Similarity 75.0%;   Pred. No. 4.1e+05;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |||:|
Db   1 WEWF 4

RESULT 13
US-08-068-947-2
; Sequence 2, Application US/08068947
; Patent No. 5470753
; GENERAL INFORMATION:
; APPLICANT: Sepetov, Nikolai
; APPLICANT: Lasakova, Olga
; APPLICANT: Krchnak, Viktor
; APPLICANT: Lebl, Michal
; TITLE OF INVENTION: PEPTIDE SEQUENCING USING MASS
; TITLE OF INVENTION: SPECTROMETRY
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/068,947
; FILING DATE: 19930528
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Misrock Esq., S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7156-040-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: AMINO ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-068-947-2

Query Match   43.6%;   Score 24;   DB 1;   Length 5;
Best Local Similarity 75.0%;   Pred. No. 4.1e+05;
Matches   3; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |||
Db   1 WNYF 4

RESULT 14
US-09-315-304B-1566
; Sequence 1566, Application US/09315304B
; Patent No. 6348568
; GENERAL INFORMATION:
; APPLICANT: Barney, S.
; APPLICANT: Guthrie, K.
; APPLICANT: Merutka, G.
; APPLICANT: Anwer, M.
; APPLICANT: Lambert, D.
; TITLE OF INVENTION: HYBRID POLYPEPTIDES WITH ENHANCED PHARMACOKINETIC
; TITLE OF INVENTION: PROPERTIES
; FILE REFERENCE: 7872-052
; CURRENT APPLICATION NUMBER: US/09/315,304B
; CURRENT FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: 09/082,279
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 1667
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1566
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Core polypeptide
US-09-315-304B-1566

Query Match   43.6%;   Score 24;   DB 3;   Length 5;
Best Local Similarity 75.0%;   Pred. No. 4.1e+05;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 WEYF 4
              |||:|
Db   2 WEWF 5

RESULT 15
US-09-350-325-26
; Sequence 26, Application US/09350325
; Patent No. 6541020
; GENERAL INFORMATION:
; APPLICANT: Ding, S.
; APPLICANT: Kang, M.
; APPLICANT: Venetta, T.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ADMINISTRATION OF
; TITLE OF INVENTION: THERAPEUTIC REAGENTS
; FILE REFERENCE: 7872-062
; CURRENT APPLICATION NUMBER: US/09/350,325
; CURRENT FILING DATE: 1999-07-09
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 26
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Artificial Sequence

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; FEATURE:
; OTHER INFORMATION: enhancer peptide
US-09-350-325-26

Query Match        43.6%;  Score 24;  DB 4;  Length 5;
Best Local Similarity  75.0%;  Pred. No. 4.1e+05;
Matches    3;  Conservative   1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 WEYF 4
          ||:|
Db      2 WEWF 5

Search completed: September 16, 2005, 11:59:36
Job time : 38.6667 secs
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              GenCore version 5.1.6
          Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:      September 16, 2005, 11:45:28 ; Search time 74 Seconds
                                (without alignments)
                                34.600 Million cell updates/sec

Title:          US-10-795-795-12
Perfect score:  26
Sequence:       1 LDNFS 5

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5

Searched:       1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters:     2547

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       UniProt_03:*
                 1: uniprot_sprot:*
                 2: uniprot_trembl:*

                             SUMMARIES

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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Result No.	Score	% Match	Query Length	DB	ID	Description
1	19	73.1	10	2	P96305	P96305 alteromonas
2	18	69.2	7	1	FARB_CALVO	P41866 calliphora
3	18	69.2	10	2	FARC_CALVO	P41867 calliphora
4	17	65.4	8	2	Q6ZZ69	Q6zz69 silene ajan
5	17	65.4	10	1	TKNB_RANRI	P29135 rana ridibu
6	16	61.5	8	1	AKHG_GRYBI	P67785 gryllus bim
7	16	61.5	8	1	AKH_ROMMI	P67786 romalea mic
8	16	61.5	8	1	HTPI_PERAM	P04548 periplaneta
9	16	61.5	8	1	HTF_TENMO	P67789 tenebrio mo
10	16	61.5	8	1	HTF_ZOPRU	P67790 zophobas ru
11	16	61.5	8	1	RPCH_PANBO	P08939 pandalus bo
12	16	61.5	9	2	Q9R5R0	Q9r5r0 shigella dy
13	16	61.5	9	2	Q7KYP6	Q7kyp6 homo sapien
14	16	61.5	9	2	Q93LE4	Q93le4 heliobacill
15	16	61.5	9	2	Q9R5R1	Q9r5r1 shigella dy
16	16	61.5	10	1	HTF_BLAGE	P84220 blattella g
17	16	61.5	10	1	HTF_GROPO	P84221 gromphadori
18	16	61.5	10	1	HTF_LEUMA	P84219 leucophaea
19	16	61.5	10	1	HTF_NAUCI	P84218 nauphoeta c
20	16	61.5	10	2	Q7M465	Q7m465 platypleura
21	16	61.5	10	2	Q9TR49	Q9tr49 bos taurus
22	16	61.5	10	2	P96423	P96423 pseudomonas
23	16	61.5	10	2	Q8VHM9	Q8vhm9 mus musculu
24	15	57.7	9	2	Q9N6M5	Q9n6m5 toxoplasma
25	15	57.7	9	2	Q14715	Q14715 homo sapien
26	15	57.7	9	2	Q71UH0	Q71uh0 rattus norv
27	15	57.7	10	2	Q7M3D3	Q7m3d3 equus cabal
28	15	57.7	10	2	Q915W6	Q915w6 liberibacte
29	14	53.8	8	2	Q7X139	Q7x139 staphylococ
30	14	53.8	9	2	Q96T78	Q96t78 homo sapien
31	14	53.8	9	2	Q9XJN0	Q9xjn0 bacteriopha
32	14	53.8	10	1	URA7_HUMAN	P34990 homo sapien
33	13	50.0	8	1	AKH_GEOST	P84241 geotrupes s
34	13	50.0	8	1	AKH_LIBAU	P25418 libellula a
35	13	50.0	8	1	AKH_MELML	P84240 melolontha
36	13	50.0	8	1	AKH_PACMA	P84242 pachnoda ma
37	13	50.0	8	1	ALL6_CYDPO	P82157 cydia pomon
38	13	50.0	8	2	P87225	P87225 saccharomyc
39	13	50.0	8	2	Q7M4H6	Q7m4h6 ischnura se
40	13	50.0	8	2	Q7M4H7	Q7m4h7 pseudagrion
41	13	50.0	8	2	Q94VF3	Q94vf3 varanus kei
42	13	50.0	9	1	Q7LZ21	Q7lz21 gallus gall
43	13	50.0	9	2	FAR8_MACRS	P83281 macrobrachi
44	13	50.0	9	2	Q6LE76	Q6le76 homo sapien
45	13	50.0	9	2	Q7M2M7	Q7m2m7 bos taurus

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                             ALIGNMENTS

RESULT 1
P96305
ID   P96305          PRELIMINARY;        PRT;     10 AA.
AC   P96305;
DT   01-MAY-1997 (TrEMBLrel. 03, Created)
DT   01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT   01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
DE   Coded portion of proteolysis tag (Fragment).
OS   Alteromonas haloplanktis (Pseudoalteromonas haloplanktis).
OC   Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales;
OC   Pseudoalteromonadaceae; Pseudoalteromonas.
OX   NCBI_TaxID=228;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=ATCC 14393;
RX   MEDLINE=97128184; PubMed=8972778;
RA   Williams K.P., Bartel D.P.;
RT   "Phylogenetic analysis of tmRNA secondary structure.";
RL   RNA 2:1306-1310(1996).
DR   EMBL; U68076; AAB48021.1; -.
FT   NON_TER         1      1
SQ   SEQUENCE   10 AA;   1053 MW;   857BD235AB544AAA CRC64;

Query Match             73.1%;   Score 19;  DB 2;  Length 10;
Best Local Similarity   75.0%;   Pred. No. 9e+02;
Matches    3;  Conservative   1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          2 DNFS 5
              |||:
Db          4 DNYS 7


RESULT 2
FARB_CALVO
ID   FARB_CALVO       STANDARD;        PRT;      7 AA.
AC   P41866;
DT   01-NOV-1995 (Rel. 32, Created)
DT   01-NOV-1995 (Rel. 32, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   CalliFMRFamide 11.
OS   Calliphora vomitoria (Blue blowfly).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
OC   Calliphoridae; Calliphora.
OX   NCBI_TaxID=27454;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Thoracic ganglion;
RX   MEDLINE=9196111; PubMed=1549595;
RA   Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,
RA   Rehfeld J.F., Thorpe A.;
RT   "Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2
RT   neuropeptides (designated calliFMRFamides) from the blowfly Calliphora
RT   vomitoria.";
```

```
RL   Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
CC       family.
DR   PIR; B44787; B44787.
KW   Amidation; Direct protein sequencing; Neuropeptide.
FT                                  Phenylalanine amide.
FT   MOD_RES          7      7
SQ   SEQUENCE   7 AA;  926 MW;  69D40699C44AB700 CRC64;

Query Match
Best Local Similarity   69.2%;  Score 18;  DB 1;  Length 7;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        2 DNF 4
            |||
Db        2 DNF 4

RESULT 3
FARC_CALVO
ID   FARC_CALVO     STANDARD;      PRT;      10 AA.
AC   P41867;
DT   01-NOV-1995 (Rel. 32, Created)
DT   01-NOV-1995 (Rel. 32, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   CalliFMRFamide 12.
OS   Calliphora vomitoria (Blue blowfly).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Oestroidea;
OC   Calliphoridae; Calliphora.
OX   NCBI_TaxID=27454;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Thoracic ganglion;
RX   MEDLINE=92196111; PubMed=1549595;
RA   Duve H., Johnsen A.H., Sewell J.C., Scott A.G., Orchard I.,
RA   Rehfeld J.F., Thorpe A.;
RT   "Isolation, structure, and activity of -Phe-Met-Arg-Phe-NH2
RT   neuropeptides (designated calliFMRFamides) from the blowfly Calliphora
RT   vomitoria.";
RL   Proc. Natl. Acad. Sci. U.S.A. 89:2326-2330(1992).
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the FARP (FMRFamide related peptide)
CC       family.
DR   PIR; C44787; C44787.
KW   Amidation; Direct protein sequencing; Neuropeptide.
FT                                  Phenylalanine amide.
FT   MOD_RES         10     10
SQ   SEQUENCE   10 AA;  1156 MW;  22810399C44AB6D8 CRC64;

Query Match
Best Local Similarity   69.2%;  Score 18;  DB 1;  Length 10;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        2 DNF 4
            |||
Db        5 DNF 7

RESULT 4
Q6ZZ69
ID   Q6ZZ69       PRELIMINARY;    PRT;     8 AA.
AC   Q6ZZ69;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   RNA polymerase II (Fragment).
GN   Name=rpb2;
OS   Silene ajanensis.
OC   Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC   Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC   Caryophyllales; Caryophyllaceae; Silene.
OX   NCBI_TaxID=265238;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Leaf;
RA   Popp M., Oxelman B.;
RT   "Evolution of a RNA polymerase gene family in Silene (Caryophyllaceae)
RT   incomplete concerted evolution and topological congruence among
RT   paralogues.";
RL   Syst. Biol. 0:0-0(0).
RN   [2]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Leaf;
RA   Popp M.;
RT   "Disentangling the reticulate history of polyploids in Silene
RT   (Caryophyllaceae).";
RL   Thesis (2004), Department of Evolutionary Biology, Systematic Botany,
RL   Uppsala universitet, Uppsala, Sweden.
DR   EMBL; AJ634075; CAG24094.1; -.
FT   NON_TER          1      1
FT   NON_TER          8      8
SQ   SEQUENCE   8 AA;  859 MW;  892DD325B0544AB2 CRC64;

Query Match
Best Local Similarity   65.4%;  Score 17;  DB 2;  Length 8;
Matches    3;  Conservative    1;  Mismatches    1;  Indels    1;  Gaps    0;

Qy        1 LDNFS 5
            :|||
Db        1 VDNIS 5

RESULT 5
TKNB_RANRI
ID   TKNB_RANRI     STANDARD;      PRT;      10 AA.
AC   P29135;
DT   01-DEC-1992 (Rel. 24, Created)
DT   01-DEC-1992 (Rel. 24, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Neurokinin A.
OS   Rana ridibunda (Laughing frog) (Marsh frog).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
OX   NCBI_TaxID=8406;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Intestine;
RX   MEDLINE=93075037; PubMed=1332683;
RA   Wang Y., Badgery-Parker T., Lovas S., Chartrel N., Vaudry H.,
RA   Burcher E., Conlon J.M.;
RT   "Primary structure and receptor-binding properties of a neurokinin A-
RT   related peptide from frog gut.";
RL   Biochem. J. 287:827-832(1992).
CC   -!- FUNCTION: Tachykinins are active peptides which excite neurons,
CC       evoke behavioral responses, are potent vasodilators and
CC       secretagogues, and contract (directly or indirectly) many smooth
CC       muscles.
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the tachykinin family.
DR   PIR; S27178; S27178.
DR   InterPro; IPR002040; Tachy_Neurokinin.
DR   Pfam; PF02202; Tachykinin; 1.
DR   PROSITE; PS00267; TACHYKININ; 1.
KW   Amidation; Direct protein sequencing; Neuropeptide; Tachykinin.
FT                                  Methionine amide.
FT   MOD_RES         10     10
SQ   SEQUENCE   10 AA;  1160 MW;  526B407059D5BAA7 CRC64;

Query Match
Best Local Similarity   65.4%;  Score 17;  DB 1;  Length 10;
Matches    3;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        1 LDNF 4
            ||:|
Db        3 LDSF 6
```

RESULT 6
AKHG_GRYBI
ID   AKHG_GRYBI   STANDARD;   PRT;   8 AA.
AC   P67785; P14086;
DT   01-JAN-1990 (Rel. 13, Created)
DT   01-FEB-1994 (Rel. 28, Last sequence update)
DT   25-OCT-2004 (Rel. 45, Last annotation update)
DE   Adipokinetic hormone G (AKH-G).
OS   Gryllus bimaculatus (Two-spotted cricket).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Orthopteroidea; Ensifera; Gryllidae; Gryllinae;
OC   Gryllus.
OX   NCBI_TaxID=6999;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Corpora cardiaca;
RX   MEDLINE=88106553; PubMed=3426616;
RA   Gaede G., Rinehart K.L. Jr.;
RT   "Primary sequence analysis by fast atom bombardment mass spectrometry
RT   of a peptide with adipokinetic activity from the corpora cardiaca of
RT   the cricket Gryllus bimaculatus.";
RL   Biochem. Biophys. Res. Commun. 149:908-914(1987).
CC   -!- FUNCTION: This hormone, released from cells in the corpora
CC   cardiaca after the beginning of flight, causes release of
CC   diglycerides from the fat body and then stimulates the flight
CC   muscles to use these diglycerides as an energy source.
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR   PIR; A28004; A28004.
DR   InterPro; IPR002047; AKH.
DR   PROSITE; PS00256; AKH; 1.
KW   Amidation; Direct protein sequencing; Flight; Neuropeptide;
KW   Pyrrolidone carboxylic acid.
FT   MOD_RES   1   1   Pyrrolidone carboxylic acid.
FT   MOD_RES   8   8   Tryptophan amide.
SQ   SEQUENCE   8 AA;   938 MW; 8678G1B5B9C452D6 CRC64;
     Query Match   61.5%; Score 16; DB 1; Length 8;
     Best Local Similarity   100.0%; Pred. No. 1.6e+06;
     Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
              |||
Db   3 NFS 5

RESULT 7
AKH_ROMMI
ID   AKH_ROMMI   STANDARD;   PRT;   8 AA.
AC   P67786; P14086;
DT   01-JAN-1990 (Rel. 13, Created)
DT   01-FEB-1994 (Rel. 28, Last sequence update)
DT   25-OCT-2004 (Rel. 45, Last annotation update)
DE   Adipokinetic hormone (AKH) (RO II).
OS   Romalea microptera (Lubber grasshopper).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha;
OC   Acridoidea; Romaleidae; Romalea.
OX   NCBI_TaxID=7007;
RN   [1]
RP   SEQUENCE.
RC   TISSUE=Corpora cardiaca;
RX   MEDLINE=89145002; PubMed=2226948; DOI=10.1016/0196-9781(88)90107-6;
RA   Gaede G., Hilbich C., Beyreuther K., Rinehart K.L. Jr.;
RT   "Sequence analyses of two neuropeptides of the AKH/RPCH-family from
RT   the lubber grasshopper, Romalea microptera.";
RL   Peptides 9;681-688(1988).
CC   -!- FUNCTION: This hormone, released from cells in the corpora
CC   cardiaca after the beginning of flight, causes release of
CC   diglycerides from the fat body and then stimulates the flight
CC   muscles to use these diglycerides as an energy source.
CC   -!- SUBCELLULAR LOCATION: Secreted.
CC   -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR   InterPro; IPR002047; AKH.
DR   PROSITE; PS00256; AKH; 1.
KW   Amidation; Direct protein sequencing; Flight; Neuropeptide;
KW   Pyrrolidone carboxylic acid.
FT   MOD_RES   1   1   Pyrrolidone carboxylic acid.
FT   MOD_RES   8   8   Tryptophan amide.
SQ   SEQUENCE   8 AA;   938 MW; 8678G1B5B9C452D6 CRC64;
     Query Match   61.5%; Score 16; DB 1; Length 8;
     Best Local Similarity   100.0%; Pred. No. 1.6e+06;
     Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   3 NFS 5
              |||
Db   3 NFS 5

RESULT 8
HTF1_PERAM
ID   HTF1_PERAM   STANDARD;   PRT;   8 AA.
AC   P04458;
DT   13-AUG-1987 (Rel. 05, Created)
DT   01-FEB-1994 (Rel. 28, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Hypertrehalosaemic factor I (Neuropeptide M-I) (Periplanetin CC-I)
DE   (PeA-CAH-I) (LeD-CC-I) (Hypertrehalosaemic neuropeptide I).
OS   Periplaneta americana (American cockroach).
OS   Leptinotarsa decemlineata (Colorado potato beetle), and
OS   Blatta orientalis (Oriental cockroach).
OC   Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC   Neoptera; Orthopteroidea; Dictyoptera; Blattaria; Blattoidea;
OC   Blattidae; Periplaneta.
OX   NCBI_TaxID=6978, 7539, 6976;
RN   [1]
RP   SEQUENCE.
RC   SPECIES=P.americana;
RX   MEDLINE=85046530; PubMed=6548628;
RA   Witten J.L., Schaffer M.H., O'Shea M., Cook J.C., Hemling M.E.,
RA   Rinehart K.L. Jr.;
RT   "Structures of two cockroach neuropeptides assigned by fast atom
RT   bombardment mass spectrometry.";
RL   Biochem. Biophys. Res. Commun. 124:350-358(1984).
RN   [2]
RP   SEQUENCE.
RC   SPECIES=P.americana;
RX   MEDLINE=84298179; PubMed=6591205;
RA   Scarborough R.M., Jamieson G.C., Kalish F., Kramer S.J., McEnroe G.A.,
RA   Miller C.A., Schooley D.A.;
RT   "Isolation and primary structure of two peptides with
RT   cardioacceleratory and hyperglycemic activity from the corpora
RT   cardiaca of Periplaneta americana.";
RL   Proc. Natl. Acad. Sci. U.S.A. 81:5575-5579(1984).
RN   [3]
RP   SEQUENCE.
RC   SPECIES=L.decemlineata; TISSUE=Corpora cardiaca;
RX   MEDLINE=90160053; PubMed=2576128; DOI=10.1016/0196-9781(89)90023-5;
RA   Gaede G., Kellner R.;
RT   "The metabolic neuropeptides of the corpus cardiacum from the potato
RT   beetle and the American cockroach are identical.";
RL   Peptides 10:1287-1289(1989).
RN   [4]
RP   SEQUENCE.
RC   SPECIES=B.orientalis; TISSUE=Corpora cardiaca;
RX   MEDLINE=90253659; PubMed=2340112;
RA   Gaede G., Rinehart K.L. Jr.;
RT   "Primary structures of hypertrehalosaemic neuropeptides isolated from
RT   the corpora cardiaca of the cockroaches Leucophaea maderae,
RT   Gromphadorhina portentosa, Blattella germanica and Blatta orientalis
RT   and of the stick insect Extatosoma tiaratum assigned by tandem fast
RT   atom bombardment mass spectrometry.";
RL   Biol. Chem. Hoppe-Seyler 371:345-354(1990).
CC   -!- FUNCTION: Hypertrehalosaemic factors are neuropeptides that
CC   elevate the level of trehalose in the hemolymph (trehalose is the

```
CC        major carbohydrate in the hemolymph of insects).
CC    -!- SUBCELLULAR LOCATION: Secreted.
CC    -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR    PIR; A05169; A05169.
DR    PIR; A44960; A44960.
DR    PIR; A49823; A49823.
DR    PIR; S08995; S08995.
DR    InterPro; IPR002047; AKH.
DR    PROSITE; PS00256; AKH; 1.
KW    Amidation; Direct protein sequencing; Neuropeptide;
KW    Pyrrolidone carboxylic acid.
FT    MOD_RES         1      1       Pyrrolidone carboxylic acid.
FT    MOD_RES         8      8       Tryptophan amide.
SQ    SEQUENCE   8 AA;  991 MW;  86745775B9C452D6 CRC64;

Query Match             61.5%;  Score 16;  DB 1;  Length 8;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NFS 5
              |||
Db          3 NFS 5

RESULT 9
HTF_TENMO
ID    HTF_TENMO     STANDARD;     PRT;     8 AA.
AC    P67789; P25419;
DT    01-MAY-1992 (Rel. 22, Created)
DT    01-FEB-1994 (Rel. 28, Last sequence update)
DT    25-OCT-2004 (Rel. 45, Last annotation update)
DE    Hypertrehalosaemic factor (HOTH) (Hypertrehalosemic neuropeptide).
OS    Tenebrio molitor (Yellow mealworm).
OC    Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC    Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia;
OC    Tenebrionidae; Tenebrio.
OX    NCBI_TaxID=7067;
RN    [1]
RP    SEQUENCE.
RC    TISSUE=Corpora cardiaca;
RX    MEDLINE=9341081; PubMed=2381871; DOI=10.1016/0196-9781(90)90042-4;
RA    Gaede G., Rosinski G.;
RT    "The primary structure of the hypertrehalosemic neuropeptide from
RT    tenebrionid beetles: a novel member of the AKH/RPCH family.";
RL    Peptides 11:455-459(1990).
CC    -!- FUNCTION: Hypertrehalosaemic factors are neuropeptides that
CC        elevate the level of trehalose in the hemolymph (trehalose is the
CC        major carbohydrate in the hemolymph of insects).
CC    -!- SUBCELLULAR LOCATION: Secreted.
CC    -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR    PIR; A43976; A43976.
DR    InterPro; IPR002047; AKH.
DR    PROSITE; PS00256; AKH; 1.
KW    Amidation; Direct protein sequencing; Neuropeptide;
KW    Pyrrolidone carboxylic acid.
FT    MOD_RES         1      1       Pyrrolidone carboxylic acid.
FT    MOD_RES         8      8       Tryptophan amide.
SQ    SEQUENCE   8 AA;  1005 MW;  86745775B9C44736 CRC64;

Query Match             61.5%;  Score 16;  DB 1;  Length 8;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NFS 5
              |||
Db          3 NFS 5

RESULT 10
HTF_ZOPRU
ID    HTF_ZOPRU     STANDARD;     PRT;     8 AA.
AC    P67790; P25419;
DT    01-MAY-1992 (Rel. 22, Created)
DT    01-FEB-1994 (Rel. 28, Last sequence update)
DT    25-OCT-2004 (Rel. 45, Last annotation update)
DE    Hypertrehalosaemic factor (HOTH) (Hypertrehalosemic neuropeptide).
OS    Zophobas rugipes.
OC    Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC    Neoptera; Endopterygota; Coleoptera; Polyphaga; Cucujiformia;
OC    Tenebrionidae; Zophobas.
OX    NCBI_TaxID=7075;
RN    [1]
RP    SEQUENCE.
RC    TISSUE=Corpora cardiaca;
RX    MEDLINE=9341081; PubMed=2381871; DOI=10.1016/0196-9781(90)90042-4;
RA    Gaede G., Rosinski G.;
RT    "The primary structure of the hypertrehalosemic neuropeptide from
RT    tenebrionid beetles: a novel member of the AKH/RPCH family.";
RL    Peptides 11:455-459(1990).
CC    -!- FUNCTION: Hypertrehalosaemic factors are neuropeptides that
CC        elevate the level of trehalose in the hemolymph (trehalose is the
CC        major carbohydrate in the hemolymph of insects).
CC    -!- SUBCELLULAR LOCATION: Secreted.
CC    -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR    PIR; B43976; B43976.
DR    InterPro; IPR002047; AKH.
DR    PROSITE; PS00256; AKH; 1.
KW    Amidation; Direct protein sequencing; Neuropeptide;
KW    Pyrrolidone carboxylic acid.
FT    MOD_RES         1      1       Pyrrolidone carboxylic acid.
FT    MOD_RES         8      8       Tryptophan amide.
SQ    SEQUENCE   8 AA;  1005 MW;  86745775B9C44736 CRC64;

Query Match             61.5%;  Score 16;  DB 1;  Length 8;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 NFS 5
              |||
Db          3 NFS 5

RESULT 11
RPCH_PANBO
ID    RPCH_PANBO     STANDARD;     PRT;     8 AA.
AC    P08939;
DT    01-NOV-1988 (Rel. 09, Created)
DT    01-FEB-1994 (Rel. 28, Last sequence update)
DT    05-JUL-2004 (Rel. 44, Last annotation update)
DE    Red pigment concentrating hormone (RPCH).
OS    Pandalus borealis (Northern red shrimp).
OC    Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
OC    Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Caridea; Pandaloidea;
OC    Pandalidae; Pandalus.
OX    NCBI_TaxID=6703;
RN    [1]
RP    SEQUENCE.
RX    MEDLINE=75054965; PubMed=443369;
RA    Fernlund P.;
RT    "Structure of the red-pigment-concentrating hormone of the shrimp,
RT    Pandalus borealis.";
RL    Biochim. Biophys. Acta 371:304-311(1974).
CC    -!- FUNCTION: This hormone adapts the animal to light backgrounds by
CC        stimulating concentration of the pigment of its red body-
CC        chromatophores.
CC    -!- SUBCELLULAR LOCATION: Secreted.
CC    -!- SIMILARITY: Belongs to the AKH / HRTH / RPCH family.
DR    PIR; A61348; A61348.
DR    InterPro; IPR002047; AKH.
DR    PROSITE; PS00256; AKH; 1.
KW    Amidation; Direct protein sequencing; Hormone; Pigment;
KW    Pyrrolidone carboxylic acid.
FT    MOD_RES         1      1       Pyrrolidone carboxylic acid.
FT    MOD_RES         8      8       Tryptophan amide.
SQ    SEQUENCE   8 AA;  948 MW;  86786677SB9C44736 CRC64;
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RL   Submitted (JUL-1989) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; X15824; CAA33822.1; -.
FT   NON_TER      9      9
SQ   SEQUENCE      9 AA;  1073 MW;  50D145B7244AB403 CRC64;

Query Match             61.5%;  Score 16;  DB 2;  Length 9;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative   0;  Mismatches   1;  Indels   0;  Gaps   0;

Qy      2 DNFS 5
          | ||
Db      4 DNLS 7


RESULT 14
Q93LE4
ID   Q93LE4      PRELIMINARY;      PRT;      9 AA.
AC   Q93LE4;
DT   01-DEC-2001 (TrEMBLrel. 19, Created)
DT   01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT   01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE   Proteolysis tag (Fragment).
OS   Heliobacillus mobilis.
OC   Bacteria; Firmicutes; Clostridia; Clostridiales; Heliobacteriaceae;
OC   Heliobacillus.
OX   NCBI_TaxID=28064;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=2006247; PubMed=10592213; DOI=10.1093/nar/28.1.168;
RA   Williams K.P.;
RT   "The tmRNA website.";
RL   Nucleic Acids Res. 28:168-168(2000).
RN   [2]
RP   SEQUENCE FROM N.A.
RA   Williams K.P.;
RL   Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AY040838; AAK83526.1; -.
FT   NON_TER      1      1
SQ   SEQUENCE      9 AA;  937 MW;  7CD8D72DCB544AAB CRC64;

Query Match             61.5%;  Score 16;  DB 2;  Length 9;
Best Local Similarity   50.0%;  Pred. No. 1.6e+06;
Matches    2;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      2 DNFS 5
          ||::
Db      3 DNYA 6


RESULT 15
Q9R5R1
ID   Q9R5R1      PRELIMINARY;      PRT;      9 AA.
AC   Q9R5R1;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE   Putative transposase (Fragment).
OS   Shigella dysenteriae.
OC   Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC   Enterobacteriaceae; Shigella.
OX   NCBI_TaxID=622;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=92085268; PubMed=1660923;
RA   Polard P., Prere M.F., Chandler M., Fayet O.;
RT   "Programmed translational frameshifting and initiation at an AUU codon
RT   in gene expression of bacterial insertion sequence IS911.";
RL   J. Mol. Biol. 222:465-477(1991).
DR   PIR; S19523; S19523.
FT   NON_TER      9      9
SQ   SEQUENCE      9 AA;  1063 MW;  5EE4C5B9C45AE333 CRC64;

Query Match             61.5%;  Score 16;  DB 2;  Length 9;
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RESULT 12
Q9R5R0
ID   Q9R5R0      PRELIMINARY;      PRT;      8 AA.
AC   Q9R5R0;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE   11,500 DA product of ORFA (Fragment).
OS   Shigella dysenteriae.
OC   Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC   Enterobacteriaceae; Shigella.
OX   NCBI_TaxID=622;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=92085268; PubMed=1660923;
RA   Polard P., Prere M.F., Chandler M., Fayet O.;
RT   "Programmed translational frameshifting and initiation at an AUU codon
RT   in gene expression of bacterial insertion sequence IS911.";
RL   J. Mol. Biol. 222:465-477(1991).
FT   NON_TER      8      8
SQ   SEQUENCE      8 AA;  935 MW;  F4C5B9C45AB33336 CRC64;

Query Match             61.5%;  Score 16;  DB 1;  Length 8;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      3 NFS 5
          |||
Db      3 NFS 5


RESULT 13
Q7KYP6
ID   Q7KYP6      PRELIMINARY;      PRT;      9 AA.
AC   Q7KYP6;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Mi.V glycoprotein (exon P3B) (Fragment).
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Miltenberger class V;
RX   MEDLINE=90005483; PubMed=2792104;
RA   Vignal A., Rahuel C., El-Maliki B., London J., Le Vankim C.,
RA   Blanchard C.D.;
RT   "Molecular Analysis of glycophorin A and B gene structure and
RT   expression . . . .";
RL   Eur. J. Biochem. 184:337-344(1989).
RN   [2]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Miltenberger class V;
RA   Vignal A., Rahuel C., El-Maliki B., London J., Le Vankim C.,
RA   Blanchard C.D.;
RT   "Molecular Analysis of glycophorin A and B gene structure and
RT   expression . . . .";
RL   Eur. J. Biochem. 184:0-0(1989).
RN   [3]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Miltenberger class V;
RA   Cartron J.P.;

Query Match             61.5%;  Score 16;  DB 2;  Length 8;
Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      3 NFS 5
          |||
Db      5 NFS 7
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Best Local Similarity   100.0%;   Pred. No. 1.6e+06;
Matches   3; Conservative   0; Mismatches   0;   Indels   0;   Gaps   0;

Qy   3 NFS 5
        |||
Db   5 NFS 7

Search completed: September 16, 2005, 11:57:41
Job time : 75 secs

GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on: September 16, 2005, 11:54:04 ; Search time 32.6667 Seconds
(without alignments)
25.020 Million cell updates/sec

Title: US-10-795-795-12
Perfect score: 26
Sequence: 1 LDNFS 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 760079 seqs, 163465437 residues

Total number of hits satisfying chosen parameters: 87311

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New:*
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3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
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8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	20	76.9	8	5	US-09-908-943B-11	Sequence 11, Appl
2	20	76.9	8	5	US-09-908-943B-65	Sequence 65, Appl
3	20	76.9	8	5	US-09-908-943B-66	Sequence 66, Appl
4	20	76.9	8	5	US-09-908-943B-67	Sequence 67, Appl
5	20	76.9	8	5	US-09-908-943B-72	Sequence 72, Appl
6	20	76.9	10	1	PCT-US05-16441-17	Sequence 17, Appl
7	19	73.1	5	7	US-11-004-399-2954	Sequence 2954, Ap
8	19	73.1	6	7	US-11-078-203-5	Sequence 5, Appli
9	19	73.1	7	7	US-11-028-230-2	Sequence 2, Appli
10	19	73.1	7	7	US-11-028-230-4	Sequence 4, Appli
11	19	73.1	9	6	US-10-817-970-1350	Sequence 1350, Ap
12	19	73.1	9	6	US-10-817-970-3476	Sequence 3476, Ap
13	19	73.1	9	6	US-10-817-970-3573	Sequence 3573, Ap
14	19	73.1	10	1	PCT-US04-39285-218	Sequence 218, App
15	19	73.1	10	6	US-10-817-970-3762	Sequence 3762, Ap
16	19	73.1	10	6	US-10-817-970-14569	Sequence 14569, A
17	18	69.2	6	6	US-10-538-310-3	Sequence 3, Appli
18	18	69.2	7	7	US-11-032-773-42	Sequence 42, Appl
19	18	69.2	8	5	US-09-908-943B-68	Sequence 68, Appl
20	18	69.2	8	7	US-11-111-072-15	Sequence 15, Appl
21	18	69.2	8	8	US-60-701-050-2524	Sequence 2524, Ap
22	18	69.2	8	8	US-09-583-200E-48	Sequence 48, Appl
23	18	69.2	9	5	US-09-189-702B-184	Sequence 184, App
24	18	69.2	9	6	US-10-817-970-184	Sequence 184, App
25	18	69.2	9	6	US-10-817-970-3225	Sequence 3225, Ap
26	18	69.2	9	6	US-10-817-970-3449	Sequence 3449, Ap
27	18	69.2	9	6	US-10-817-970-3480	Sequence 3480, Ap
28	18	69.2	9	6	US-10-817-970-3501	Sequence 3501, Ap
29	18	69.2	9	6	US-10-817-970-3517	Sequence 3517, Ap
30	18	69.2	9	6	US-10-817-970-3574	Sequence 3574, Ap
31	18	69.2	9	6	US-10-817-970-3636	Sequence 3636, Ap
32	18	69.2	9	6	US-10-817-970-14629	Sequence 14629, A
33	18	69.2	9	6	US-10-953-901-651	Sequence 651, App
34	18	69.2	9	6	US-10-538-066-753	Sequence 753, App
35	18	69.2	9	7	US-11-041-893-27	Sequence 27, Appl
36	18	69.2	9	7	US-11-051-411-1202	Sequence 1202, Ap
37	18	69.2	9	7	US-11-051-411-1346	Sequence 1346, Ap
38	18	69.2	9	7	US-11-045-024-14223	Sequence 14223, A
39	18	69.2	9	7	US-11-045-024-14505	Sequence 14505, A
40	18	69.2	9	7	US-11-208-541-4	Sequence 4, Appli
41	18	69.2	10	1	PCT-US05-04900-2	Sequence 2, Appli
42	18	69.2	10	7	US-11-057-708-20	Sequence 20, Appl
43	18	69.2	10	7	US-11-019-894A-30	Sequence 30, Appl
44	17	65.4	7	6	US-10-395-607A-194	Sequence 194, App
45	17	65.4	7	7	US-11-202-009-3469	Sequence 3469, Ap

ALIGNMENTS

RESULT 1
US-09-908-943B-11

; Sequence 11, Application US/09908943B
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomasselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US
; CURRENT APPLICATION NUMBER: US/09/908,943B
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
US-09-908-943B-11

Query Match 76.9%; Score 20; DB 5; Length 8;
Best Local Similarity 75.0%; Pred. No. 6.9e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy  1 LDNF 4
        :|||
Db  4 MDNF 7
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RESULT 2
US-09-908-943B-65
; Sequence 65, Application US/09908943B
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomasselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US

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; CURRENT APPLICATION NUMBER: US/09/908,943B
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 65
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Xaa= E, G, I, D, T, cysteic acid or S
US-09-908-943B-65

Query Match         76.9%;    Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches   3;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

Qy   1 LDNF 4
       :|||
Db   4 MDNF 7

RESULT 3
US-09-908-943B-66
; Sequence 66, Application US/09908943B
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomasselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US
; CURRENT APPLICATION NUMBER: US/09/908,943B
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 66
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (2)
; OTHER INFORMATION: Xaa= A, V, I, S, H, Y, T or F
US-09-908-943B-66

Query Match         76.9%;    Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches   3;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

Qy   1 LDNF 4
       :|||
Db   4 MDNF 7

RESULT 4
US-09-908-943B-67
; Sequence 67, Application US/09908943B
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang


; APPLICANT: Tomasselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US
; CURRENT APPLICATION NUMBER: US/09/908,943B
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 67
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3)
; OTHER INFORMATION: Xaa= N, L, K, S, G, T, D, A, Q or E
US-09-908-943B-67

Query Match         76.9%;    Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches   3;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

Qy   1 LDNF 4
       :|||
Db   4 MDNF 7

RESULT 5
US-09-908-943B-72
; Sequence 72, Application US/09908943B
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomasselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US
; CURRENT APPLICATION NUMBER: US/09/908,943B
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 72
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (8)
; OTHER INFORMATION: Xaa= F, W, G, A, H, P, G, N or S
US-09-908-943B-72

Query Match         76.9%;    Score 20;  DB 5;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches   3;  Conservative  1;  Mismatches  0;  Indels  0;  Gaps  0;

Qy   1 LDNF 4
       :|||
Db   4 MDNF 7
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RESULT 6
PCT-US05-16441-17
; Sequence 17, Application PC/TUS0516441
; GENERAL INFORMATION:
; APPLICANT: AbGenomics Corporation
; TITLE OF INVENTION: T-CELL DEATH-INDUCING EPITOPES
; FILE REFERENCE: 113062-009W01
; CURRENT APPLICATION NUMBER: PCT/US05/16441
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,161
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated peptide
PCT-US05-16441-17

Query Match   76.9%; Score 20; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
           :|||
Db   3 MDNF 6

RESULT 7
US-11-004-399-2954
; Sequence 2954, Application US/11004399
; GENERAL INFORMATION:
; APPLICANT: Chye, Mee Lee
; APPLICANT: Li, Hong Ye
; APPLICANT: Ramalingam, Sathiskumar
; APPLICANT: Poon, Leo Lit Man
; APPLICANT: Peiris, Joseph Sriyal Malik
; TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
; TITLE OF INVENTION: Sequences and Methods of Use Thereof For Immunization Against SA
; FILE REFERENCE: 2587/73166/RDK
; CURRENT APPLICATION NUMBER: US/11/004,399
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,637
; PRIOR FILING DATE: 2003-12-03
; NUMBER OF SEQ ID NOS: 4043
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2954
; LENGTH: 5
; TYPE: PRT
; ORGANISM: SARS-CoV Virus
US-11-004-399-2954

Query Match   73.1%; Score 19; DB 7; Length 5;
Best Local Similarity 75.0%; Pred. No. 6.9e+05;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   2 DNFS 5
           |||:
Db   2 DNFA 5

RESULT 8
US-11-078-203-5
; Sequence 5, Application US/11078203
; GENERAL INFORMATION:
; APPLICANT: Pak, Brian
; APPLICANT: Fu, Siyu
; APPLICANT: Lomas, Lee
; APPLICANT: Tornatore, Pete
; APPLICANT: Viner, Rosa
; APPLICANT: Weinberger, Scot R.
; APPLICANT: Yip, Tai-tung
; APPLICANT: Ciphergen Biosystems, Inc.
; TITLE OF INVENTION: SARS Virus Polypeptides
; FILE REFERENCE: 016866-010671US
; CURRENT APPLICATION NUMBER: US/11/078,203
; CURRENT FILING DATE: 2005-03-10
; PRIOR APPLICATION NUMBER: US 60/461,945
; PRIOR FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/462,597
; PRIOR FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: US 60/462,928
; PRIOR FILING DATE: 2003-04-14
; PRIOR APPLICATION NUMBER: US 60/462,964
; PRIOR FILING DATE: 2003-04-14
; PRIOR APPLICATION NUMBER: US 60/463,177
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: US 60/463,874
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: US 60/470,688
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: US 10/822,152
; PRIOR FILING DATE: 2004-04-08
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:severe acute
; OTHER INFORMATION: respiratory syndrome (SARS)-related polypeptide
; OTHER INFORMATION: trypsin digest Peptide 5
US-11-078-203-5

Query Match   73.1%; Score 19; DB 7; Length 6;
Best Local Similarity 60.0%; Pred. No. 6.9e+05;
Matches   3; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNFS 5
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Db   1 MDDFS 5

RESULT 9
US-11-028-230-2
; Sequence 2, Application US/11028230
; GENERAL INFORMATION:
; APPLICANT: SHIMADZU CORPORATION
; TITLE OF INVENTION: Method for Selective Measurement of Specific Substances from a Mi:
; TITLE OF INVENTION: MALDI Mass Spectrometry
; FILE REFERENCE: G16-32-US
; CURRENT APPLICATION NUMBER: US/11/028,230
; CURRENT FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: JP2004-153484
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: JP2004-368508
; PRIOR FILING DATE: 2004-12-20
; NUMBER OF SEQ ID NOS: 9
; SEQ ID NO 2
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Gallus gallus
; FEATURE:
; NAME/KEY: BINDING
; LOCATION: 6
; OTHER INFORMATION: NITRATION
US-11-028-230-2

Query Match   73.1%; Score 19; DB 7; Length 7;
Best Local Similarity 75.0%; Pred. No. 6.9e+05;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 LDNF 4
        |||:
Db    3 LDNY 6

RESULT 10
US-11-028-230-4
; Sequence 4, Application US/11028230
; GENERAL INFORMATION:
; APPLICANT: SHIMADZU CORPORATION
; TITLE OF INVENTION: Method for Selective Measurement of Specific Substances from a Mi
; TITLE OF INVENTION: MALDI Mass Spectrometry
; FILE REFERENCE: G16-32-US
; CURRENT APPLICATION NUMBER: US/11/028,230
; CURRENT FILING DATE: 2005-01-04
; PRIOR APPLICATION NUMBER: JP2004-153484
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: JP2004-368508
; PRIOR FILING DATE: 2004-12-20
; NUMBER OF SEQ ID NOS: 9
; SEQ ID NO 4
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Gallus gallus
US-11-028-230-4

Query Match        73.1%;  Score 19;  DB 7;  Length 7;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    1 LDNF 4
        |||:
Db    3 LDNY 6

RESULT 11
US-10-817-970-1350
; Sequence 1350, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1350
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-1350

Query Match        73.1%;  Score 19;  DB 6;  Length 9;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    2 DNFS 5
        |||:
Db    5 DNFA 8

RESULT 12
US-10-817-970-3476
; Sequence 3476, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3476
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-3476

Query Match        73.1%;  Score 19;  DB 6;  Length 9;
Best Local Similarity   75.0%;  Pred. No. 6.9e+05;
Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    2 DNFS 5
        |||:
Db    5 DNFA 8
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RESULT 13
US-10-817-970-3573
; Sequence 3573, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3573
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-3573

Query Match   73.1%;   Score 19;   DB 6; Length 9;
Best Local Similarity   75.0%;   Pred. No. 6.9e+05;
Matches   3; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   2 DNFS 5
              |||:
Db   5 DNFA 8

RESULT 14
PCT-US04-39285-218
; Sequence 218, Application PC/TUS0439285
; GENERAL INFORMATION:
; APPLICANT: JOHNS HOPKINS UNIVERSITY
; TITLE OF INVENTION: BIOMOLECULE PARTITION MOTIFS AND USES THEREOF
; FILE REFERENCE: (71699)62360 PCT
; CURRENT APPLICATION NUMBER: PCT/US04/39285
; CURRENT FILING DATE: 2004-11-22
; PRIOR APPLICATION NUMBER: 60/524,380
; PRIOR FILING DATE: 2003-11-21
; NUMBER OF SEQ ID NOS: 332
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 218
; LENGTH: 10

; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Biomolecule
; OTHER INFORMATION: partition motif
PCT-US04-39285-218

Query Match   73.1%;   Score 19;   DB 1; Length 10;
Best Local Similarity   75.0%;   Pred. No. 3.9e+02;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
              :|||
Db   1 VDNF 4

RESULT 15
US-10-817-970-3762
; Sequence 3762, Application US/10817970
; GENERAL INFORMATION:
; APPLICANT: Grey, H.
; APPLICANT: Sette, A.
; APPLICANT: Sidney, J.
; APPLICANT: Southwood, S.
; APPLICANT: Kubo, R.
; APPLICANT: Celis, E.
; APPLICANT: Chesnut, R.
; APPLICANT: Kast, W.M.
; TITLE OF INVENTION: HLA Binding Motifs and Peptides and Their Uses
; FILE REFERENCE: 2060.0500000
; CURRENT APPLICATION NUMBER: US/10/817,970
; CURRENT FILING DATE: 2004-04-06
; PRIOR APPLICATION NUMBER: 08/821,739
; PRIOR FILING DATE: 1997-03-20
; PRIOR APPLICATION NUMBER: 60/013,833
; PRIOR FILING DATE: 1996-03-21
; PRIOR APPLICATION NUMBER: 08/589,107
; PRIOR FILING DATE: 1996-01-23
; PRIOR APPLICATION NUMBER: 08/451,913
; PRIOR FILING DATE: 1995-05-26
; PRIOR APPLICATION NUMBER: 08/186,266
; PRIOR FILING DATE: 1994-01-25
; PRIOR APPLICATION NUMBER: 08/159,339
; PRIOR FILING DATE: 1993-11-29
; PRIOR APPLICATION NUMBER: 08/103,396
; PRIOR FILING DATE: 1993-08-06
; PRIOR APPLICATION NUMBER: 08/027,746
; PRIOR FILING DATE: 1993-03-05
; PRIOR APPLICATION NUMBER: 07/926,666
; PRIOR FILING DATE: 1992-08-07
; PRIOR APPLICATION NUMBER: 08/347,610
; PRIOR FILING DATE: 1994-12-01
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 14635
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3762
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-817-970-3762

Query Match   73.1%;   Score 19;   DB 6; Length 10;
Best Local Similarity   75.0%;   Pred. No. 3.9e+02;
Matches   3; Conservative.   1; Mismatches   1; Indels   0; Gaps   0;

Qy   2 DNFS 5
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Db   7 DNFA 10

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Fri Sep 16 16:20:45 2005

Job time : 33.6667 secs

OM protein - protein search, using sw model

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Run on: September 16, 2005, 11:49:59 ; Search time 222 Seconds
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Title: US-10-795-795-12
Perfect score: 26
Sequence: 26

Scoring table: BLOSUM62
                  Gapop 10.0 , Gapext 0.5

Searched: 695926 seqs, 1168006243 residues

Total number of hits satisfying chosen parameters: 755392

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries

Database :   Pending_Patents_AA_Main:*

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2	26	100.0	10	33	US-10-795-795-11	Sequence 11, Appl
3	22	84.6	8	27	US-10-111-983-2406	Sequence 2406, Ap
4	22	84.6	8	27	US-10-111-983-16504	Sequence 16504, A
5	22	84.6	8	27	US-10-111-983-28478	Sequence 28478, A
6	22	84.6	9	8	US-08-457-540A-33	Sequence 33, Appl
7	22	84.6	9	19	US-09-519-658A-43	Sequence 43, Appl
8	22	84.6	10	19	US-09-573-822C-408	Sequence 408, App
9	22	84.6	10	19	US-09-573-822D-408	Sequence 408, App
10	21	80.8	8	7	US-08-334-029A-6	Sequence 6, Appli
11	21	80.8	8	33	US-10-768-798-6	Sequence 6, Appli
12	20	76.9	5	27	US-10-111-983-33494	Sequence 33494, A
13	20	76.9	6	27	US-10-111-983-33453	Sequence 33453, A
14	20	76.9	7	18	US-09-403-092-2	Sequence 2, Appli
15	20	76.9	7	21	US-09-749-234-2	Sequence 2, Appli
16	20	76.9	7	21	US-09-749-234A-2	Sequence 2, Appli
17	20	76.9	8	1	PCT-US02-02303-97	Sequence 97, Appl
18	20	76.9	8	24	US-09-908-943A-11	Sequence 11, Appl
19	20	76.9	8	24	US-09-908-943A-65	Sequence 65, Appl
20	20	76.9	8	24	US-09-908-943A-66	Sequence 66, Appl
21	20	76.9	8	24	US-09-908-943A-67	Sequence 67, Appl
22	20	76.9	8	24	US-09-908-943A-72	Sequence 72, Appl
23	20	76.9	8	34	US-10-801-486-11	Sequence 11, Appl
24	20	76.9	8	34	US-10-801-486-65	Sequence 65, Appl
25	20	76.9	8	34	US-10-801-486-66	Sequence 66, Appl
26	20	76.9	8	34	US-10-801-486-67	Sequence 67, Appl
27	20	76.9	8	34	US-10-801-486-72	Sequence 72, Appl
28	20	76.9	8	34	US-10-801-487-11	Sequence 11, Appl
29	20	76.9	8	34	US-10-801-487-65	Sequence 65, Appl
30	20	76.9	8	34	US-10-801-487-66	Sequence 66, Appl
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32	20	76.9	8	34	US-10-801-487-72	Sequence 72, Appl
33	20	76.9	8	34	US-10-801-493-11	Sequence 11, Appl
34	20	76.9	8	34	US-10-801-493-65	Sequence 65, Appl
35	20	76.9	8	34	US-10-801-493-66	Sequence 66, Appl
36	20	76.9	8	34	US-10-801-493-67	Sequence 67, Appl
37	20	76.9	8	34	US-10-801-493-72	Sequence 72, Appl
38	20	76.9	8	34	US-10-801-509-11	Sequence 11, Appl
39	20	76.9	8	34	US-10-801-509-65	Sequence 65, Appl
40	20	76.9	8	34	US-10-801-509-66	Sequence 66, Appl
41	20	76.9	8	34	US-10-801-509-67	Sequence 67, Appl
42	20	76.9	8	34	US-10-801-509-72	Sequence 72, Appl
43	20	76.9	8	34	US-10-801-938-11	Sequence 11, Appl
44	20	76.9	8	34	US-10-801-938-65	Sequence 65, Appl
45	20	76.9	8	34	US-10-801-938-66	Sequence 66, Appl

ALIGNMENTS

RESULT 1
US-10-795-795-12
; Sequence 12, Application US/10795795
; GENERAL INFORMATION:
; APPLICANT: Cleveland State University
; APPLICANT: Kalafatis, Michael
; APPLICANT: Mann, Kenneth G.
; TITLE OF INVENTION: Thrombin Generation Inhibitor
; FILE REFERENCE: 27433/04004
; CURRENT APPLICATION NUMBER: US/10/795,795
; CURRENT FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US/09/911,129B
; PRIOR FILING DATE: 2002-03-19
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
;
; SEQ ID NO 12
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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Query Match         100.0%;  Score 26;  DB 33;  Length 5;
Best Local Similarity 100.0%;  Pred. No. 6.4e+06;
Matches    5;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 LDNFS 5
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Db      1 LDNFS 5
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RESULT 2
US-10-795-795-11
; Sequence 11, Application US/10795795
; GENERAL INFORMATION:
;   APPLICANT: Kalafatis, Michael
;   APPLICANT: Mann, Kenneth G.
;   APPLICANT: Cleveland State University
;   TITLE OF INVENTION: Thrombin Generation Inhibitor
;   FILE REFERENCE: 27433/04004
;   CURRENT APPLICATION NUMBER: US/10/795,795
;   CURRENT FILING DATE: 2004-03-08
;   PRIOR APPLICATION NUMBER: US/09/911,129B
;   PRIOR FILING DATE: 2002-03-19
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-795-795-11

```
Query Match         100.0%;  Score 26;  DB 33;  Length 10;
Best Local Similarity 100.0%;  Pred. No. 88;
Matches    5;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy      1 LDNFS 5
          |||||
Db      6 LDNFS 10
```

RESULT 3
US-10-111-983-2406
; Sequence 2406, Application US/10111983
; GENERAL INFORMATION:
;   APPLICANT: CHIRON SpA
;   APPLICANT: GALEOTTI Cesira
;   APPLICANT: GRANDI Guido
;   APPLICANT: MASIGNANI Vega
;   APPLICANT: MORA Mariarosa
;   APPLICANT: PIZZA Mariagrazia
;   APPLICANT: RAPPUOLI Rino
;   APPLICANT: RATTI Giulio
;   APPLICANT: SCARLATO Vincenzo
;   APPLICANT: SCARSELLI Maria
;   TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
;   FILE REFERENCE: 2300-1654   (PP01654.003)
;   CURRENT APPLICATION NUMBER: US/10/111,983
;   CURRENT FILING DATE: 2003-06-27
;   PRIOR APPLICATION NUMBER: US-60/162616
;   PRIOR FILING DATE: 1999-10-29
;   NUMBER OF SEQ ID NOS: 37764
;   SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 2406
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Neisseria
US-10-111-983-2406

```
Query Match          84.6%;  Score 22;  DB 27;  Length 8;
Best Local Similarity 100.0%;  Pred. No. 6.4e+06;
Matches    4;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
```

Qy   1 LDNF 4
          ||||
Db   2 LDNF 5

RESULT 4
US-10-111-983-16504
; Sequence 16504, Application US/10111983
; GENERAL INFORMATION:
;   APPLICANT: CHIRON SpA
;   APPLICANT: GALEOTTI Cesira
;   APPLICANT: GRANDI Guido
;   APPLICANT: MASIGNANI Vega
;   APPLICANT: MORA Mariarosa
;   APPLICANT: PIZZA Mariagrazia
;   APPLICANT: RAPPUOLI Rino
;   APPLICANT: RATTI Giulio
;   APPLICANT: SCARLATO Vincenzo
;   APPLICANT: SCARSELLI Maria
;   TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
;   FILE REFERENCE: 2300-1654   (PP01654.003)
;   CURRENT APPLICATION NUMBER: US/10/111,983
;   CURRENT FILING DATE: 2003-06-27
;   PRIOR APPLICATION NUMBER: US-60/162616
;   PRIOR FILING DATE: 1999-10-29
;   NUMBER OF SEQ ID NOS: 37764
;   SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 16504
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Neisseria
US-10-111-983-16504

```
Query Match          84.6%;  Score 22;  DB 27;  Length 8;
Best Local Similarity 100.0%;  Pred. No. 6.4e+06;
Matches    4;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
```

Qy   1 LDNF 4
          ||||
Db   2 LDNF 5

RESULT 5
US-10-111-983-28478
; Sequence 28478, Application US/10111983
; GENERAL INFORMATION:
;   APPLICANT: CHIRON SpA
;   APPLICANT: GALEOTTI Cesira
;   APPLICANT: GRANDI Guido
;   APPLICANT: MASIGNANI Vega
;   APPLICANT: MORA Mariarosa
;   APPLICANT: PIZZA Mariagrazia
;   APPLICANT: RAPPUOLI Rino
;   APPLICANT: RATTI Giulio
;   APPLICANT: SCARLATO Vincenzo
;   APPLICANT: SCARSELLI Maria
;   TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
;   FILE REFERENCE: 2300-1654   (PP01654.003)
;   CURRENT APPLICATION NUMBER: US/10/111,983
;   CURRENT FILING DATE: 2003-06-27
;   PRIOR APPLICATION NUMBER: US-60/162616
;   PRIOR FILING DATE: 1999-10-29
;   NUMBER OF SEQ ID NOS: 37764
;   SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 28478
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Neisseria
US-10-111-983-28478

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Query Match          84.6%;  Score 22;  DB 27;  Length 8;
Best Local Similarity 100.0%;  Pred. No. 6.4e+06;
Matches    4;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;
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Qy   1 LDNF 4
          ||||
Db   2 LDNF 5

RESULT 6
US-08-457-540A-33
; Sequence 33, Application US/08457540A
; GENERAL INFORMATION:
;   APPLICANT: CRAMERI, SONIA L.
;   APPLICANT: PANACCIO, MICHAEL
;   APPLICANT: WILSON, LACHLAN R.
;   APPLICANT: WIJFFELS, GENE L.
;   APPLICANT: SPITHILL, TERENCE W.
;   APPLICANT: CAMPBELL, NOEL J.
;   APPLICANT: THOMPSON, CATRIONA M.
;   APPLICANT: SEXTON, JENNIFER L.
;   APPLICANT: MILNER, ANDREW R.
;   APPLICANT: MITCHELL, GRAHAM F.
;   TITLE OF INVENTION: VACCINE FOR THE PREVENTATIVE TREATMENT
;   TITLE OF INVENTION: OF INFECTION OF LIVER FLUKE IN RUMINANTS
;   NUMBER OF SEQUENCES: 75
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: CUSHMAN DARBY & CUSHMAN, L.L.P.
;   STREET: 1100 New York Avenue, N.W.
;   CITY: Washington ,
;   STATE: D.C.
;   COUNTRY: U.S.A.
;   ZIP: 20005-3918
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/457,540A
;   FILING DATE: 01-JUN-1995
;   CLASSIFICATION: 536
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 08/063,061
;   FILING DATE: 19-MAY-1993
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 07/730,895
;   FILING DATE: 31-JUL-1991
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: PCT/AU90/00027
;   FILING DATE: 31-JAN-1990
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: AU PJ2481
;   FILING DATE: 31-JAN-1989
;   ATTORNEY/AGENT INFORMATION:
;   NAME: KOKULIS, PAUL N.
;   REGISTRATION NUMBER: 16,773
;   REFERENCE/DOCKET NUMBER: 218067/1747488/JMS
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (202) 861-3000
;   TELEFAX: (202) 822-0944
;   TELEX: 6714627 CUSH
;   INFORMATION FOR SEQ ID NO: 33:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 9 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
US-08-457-540A-33

Query Match   84.6%; Score 22; DB 8; Length 9;
Best Local Similarity   100.0%; Pred. No. 6.4e+06;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4

Db   6 LDNF 9
          ||||

RESULT 7
US-09-519-658A-43
; Sequence 43, Application US/09519658A
; GENERAL INFORMATION:
;   APPLICANT: Boehringer Ingelheim International GmbH et al.
;   TITLE OF INVENTION: Tumor-associated antigen
;   FILE REFERENCE: seqlist12202
;   CURRENT APPLICATION NUMBER: US/09/519,658A
;   CURRENT FILING DATE: 2000-03-06
;   NUMBER OF SEQ ID NOS: 59
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-519-658A-43

Query Match   84.6%; Score 22; DB 19; Length 9;
Best Local Similarity   100.0%; Pred. No. 6.4e+06;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
          ||||
Db   2 LDNF 5

RESULT 8
US-09-573-822C-408
; Sequence 408, Application US/09573822C
; GENERAL INFORMATION:
;   APPLICANT: Proteom Ltd
;   TITLE OF INVENTION: Complementary peptide ligands generated from microbial genome seq
;   FILE REFERENCE: Microbe patent
;   CURRENT APPLICATION NUMBER: US/09/573,822C
;   CURRENT FILING DATE: 2000-05-18
;   NUMBER OF SEQ ID NOS: 804
;   SOFTWARE: ProtPatent version 1.0
; SEQ ID NO 408
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: mycoplasma genitalium
;   FEATURE:
;   OTHER INFORMATION: Sequence located in MG189 at 100-109 and may interact with Sequen
;   OTHER INFORMATION: in this patent.
US-09-573-822C-408

Query Match   84.6%; Score 22; DB 19; Length 10;
Best Local Similarity   100.0%; Pred. No. 7.3e+02;
Matches   4; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 DNFS 5
          ||||
Db   1 DNFS 4

RESULT 9
US-09-573-822D-408
; Sequence 408, Application US/09573822D
; GENERAL INFORMATION:
;   APPLICANT: Proteom Ltd
;   TITLE OF INVENTION: Complementary peptide ligands generated from microbial genome seq
;   FILE REFERENCE: Microbe patent
;   CURRENT APPLICATION NUMBER: US/09/573,822D
;   CURRENT FILING DATE: 2000-05-18
;   NUMBER OF SEQ ID NOS: 892
;   SOFTWARE: ProtPatent version 1.0
; SEQ ID NO 408
;   LENGTH: 10
;   TYPE: PRT

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;  ORGANISM: mycoplasma genitalium
;  FEATURE:
;  OTHER INFORMATION: Sequence located in MG189 at 100-109 and may interact with Sequen
;  OTHER INFORMATION: in this patent.
US-09-573-822D-408

Query Match             84.6%;  Score 22;  DB 19;  Length 10;
Best Local Similarity   100.0%;  Pred. No. 7.3e+02;
Matches    4;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

Qy         2 DNFS 5
             ||||
Db         1 DNFS 4

RESULT 10
US-08-334-029A-6
;  Sequence 6, Application US/0833402A
;  GENERAL INFORMATION:
;      APPLICANT: Mandel, Gail
;      APPLICANT: Halegoua, Simon
;      TITLE OF INVENTION:  Peripheral Nervous System Specific
;      TITLE OF INVENTION:  Sodium Channels, DNA Encoding Therefor, Drug Screening,
;      TITLE OF INVENTION:  and Methods of Making and Using Thereof
;      NUMBER OF SEQUENCES: 8
;      CORRESPONDENCE ADDRES:
;        ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
;        STREET: 1100 New York Ave., N.W.
;        CITY: Washington
;        STATE: D.C.
;        COUNTRY: U.S.A.
;        ZIP: 20005
;      COMPUTER READABLE FORM:
;        MEDIUM TYPE: Floppy disk
;        COMPUTER: IBM PC compatible
;        OPERATING SYSTEM: PC-DOS/MS-DOS
;        SOFTWARE: PatentIn Release #1.0, Version #1.25
;      CURRENT APPLICATION DATA:
;        APPLICATION NUMBER: US/08/334,029A
;        FILING DATE: 02-NOV-1994
;        CLASSIFICATION: 514
;      ATTORNEY/AGENT INFORMATION:
;        NAME: Townsend, G. Kevin
;        REGISTRATION NUMBER: 34,033
;        REFERENCE/DOCKET NUMBER: 1459.0240000
;      TELECOMMUNICATION INFORMATION:
;        TELEPHONE: 202-371-2600
;        TELEFAX: 202-371-2540
;  INFORMATION FOR SEQ ID NO:  6:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH: 8 amino acids
;        TYPE: amino acid
;        STRANDEDNESS: single
;        TOPOLOGY: linear
;      MOLECULE TYPE: peptide
US-08-334-029A-6

Query Match             80.8%;  Score 21;  DB 7;  Length 8;
Best Local Similarity   60.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;

Qy         1 LDNFS 5
             :|||:
Db         4 IDNFN 8

RESULT 11
US-10-768-798-6
;  Sequence 6, Application US/1076879
;  GENERAL INFORMATION:
;      APPLICANT: Mandel, Gail
;             Halegoua, Simon
;      TITLE OF INVENTION: Peripheral Nervous System Specific
```

```
              Sodium Channels, DNA Encoding Therefor, Crystalization,
              X-ray Diffraction, Computer Molecular Modeling, Rational
              Drug Design, Drug Screening, and Methods of Making and Using
;      NUMBER OF SEQUENCES: 19
;      CORRESPONDENCE ADDRESS:
;        ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
;        STREET: 1100 New York Ave., N. W., Suite 600
;        CITY: Washington
;        STATE: DC
;        COUNTRY: USA
;        ZIP: 20005-3934
;      COMPUTER READABLE FORM:
;        MEDIUM TYPE: Floppy disk
;        COMPUTER: IBM PC compatible
;        OPERATING SYSTEM: PC-DOS/MS-DOS
;        SOFTWARE: PatentIn Release #1.0, Version #1.30
;      CURRENT APPLICATION DATA:
;        APPLICATION NUMBER: US/10/768,798
;        FILING DATE: 29-Jan-2004
;        CLASSIFICATION: 514
;      PRIOR APPLICATION DATA:
;        APPLICATION NUMBER: US/09/457,571
;        FILING DATE: 09-DEC-1999
;        APPLICATION NUMBER: 08/836,325
;        FILING DATE: 02-MAY-1997
;        APPLICATION NUMBER: PCT/US95/14251
;        FILING DATE: 02-NOV-1995
;        APPLICATION NUMBER: 08/482,401
;        FILING DATE: 07-JUN-1995
;        APPLICATION NUMBER: 08/334,029
;        FILING DATE: 02-NOV-1994
;      ATTORNEY/AGENT INFORMATION:
;        NAME: Ludwig, Steven R.
;        REGISTRATION NUMBER: 36,203
;        REFERENCE/DOCKET NUMBER: 0917.0240003
;      TELECOMMUNICATION INFORMATION:
;        TELEPHONE: 202-371-2600
;        TELEFAX: 202-371-2540
;  INFORMATION FOR SEQ ID NO:  6:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH: 8 amino acids
;        TYPE: amino acid
;        STRANDEDNESS: single
;        TOPOLOGY: linear
;      MOLECULE TYPE: peptide
;      SEQUENCE DESCRIPTION: SEQ ID NO:  6:
US-10-768-798-6

Query Match             80.8%;  Score 21;  DB 33;  Length 8;
Best Local Similarity   60.0%;  Pred. No. 6.4e+06;
Matches    3;  Conservative   2;  Mismatches   0;  Indels   0;  Gaps   0;

Qy         1 LDNFS 5
             :|||:
Db         4 IDNFN 8

RESULT 12
US-10-111-983-33494
;  Sequence 33494, Application US/10111983
;  GENERAL INFORMATION:
;      APPLICANT: CHIRON SpA
;      APPLICANT: GALEOTTI Cesira
;      APPLICANT: GRANDI Guido
;      APPLICANT: MASIGNANI Vega
;      APPLICANT: MORA Mariarosa
;      APPLICANT: PIZZA Mariagrazia
;      APPLICANT: RAPPUOLI Rino
;      APPLICANT: RATTI Giulio
;      APPLICANT: SCARLATO Vincenzo
;      APPLICANT: SCARSELLI Maria
;      TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
;      FILE REFERENCE: 2300-1654   (PP01654.003)
```

; CURRENT APPLICATION NUMBER: US/10/111,983
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US-60/162616
; PRIOR FILING DATE: 1999-10-29
; NUMBER OF SEQ ID NOS: 37764
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 33494
;   LENGTH: 5
;   TYPE: PRT
;   ORGANISM: Neisseria
US-10-111-983-33494

Query Match   76.9%;   Score 20; DB 27; Length 5;
Best Local Similarity   75.0%; Pred. No. 6.4e+06;
Matches   3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy   1 LDNF 4
          :|||
Db   1 IDNF 4

RESULT 13
US-10-111-983-33453
; Sequence 33453, Application US/1011983
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: GALEOTTI Cesira
; APPLICANT: GRANDI Guido
; APPLICANT: MASIGNANI Vega
; APPLICANT: MORA Mariarosa
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: RAPPUOLI Rino
; APPLICANT: RATTI Giulio
; APPLICANT: SCARIATO Vincenzo
; APPLICANT: SCARSELLI Maria
; TITLE OF INVENTION: NEISSERIAL ANTIGENIC PEPTIDES
; FILE REFERENCE: 2300-1654 (PP01654.003)
; CURRENT APPLICATION NUMBER: US/10/111,983
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US-60/162616
; PRIOR FILING DATE: 1999-10-29
; NUMBER OF SEQ ID NOS: 37764
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 33453
;   LENGTH: 6
;   TYPE: PRT
;   ORGANISM: Neisseria
US-10-111-983-33453

Query Match   76.9%;   Score 20; DB 27; Length 6;
Best Local Similarity   80.0%; Pred. No. 6.4e+06;
Matches   4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy   1 LDNFS 5
          |:|||
Db   2 LDRFS 6

RESULT 14
US-09-403-092-2
; Sequence 2, Application US/09403092
; GENERAL INFORMATION:
; APPLICANT: HOFMANN, Joachim
; APPLICANT: SCHMID, Karlheinrich
; APPLICANT: PAULI, Annette
; TITLE OF INVENTION: DICTYOCAULUS VIVIPARUS ANTIGEN FOR THE
; TITLE OF INVENTION: DIAGNOSIS OF LUNGWORM INFESTATION AND FOR VACCINATION
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.

; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/403,092
; FILING DATE: 15-OCT-1999
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/EP98/02090
; FILING DATE: 09-APR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DE 197 15 586.3
; FILING DATE: 15-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Granados, Patricia D.
; REGISTRATION NUMBER: 33,683
; REFERENCE/DOCKET NUMBER: 038311/0103
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-09-403-092-2

Query Match   76.9%;   Score 20; DB 18; Length 7;
Best Local Similarity   75.0%; Pred. No. 6.4e+06;
Matches   3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy   1 LDNF 4
          :|||
Db   2 MDNF 5

RESULT 15
US-09-749-234-2
; Sequence 2, Application US/09749234
; GENERAL INFORMATION:
; APPLICANT: HOFMANN, Joachim
;   SCHMID, Karlheinrich
;   PAULI, Annette
; TITLE OF INVENTION: DICTYOCAULUS VIVIPARUS ANTIGEN FOR THE
;   DIAGNOSIS OF LUNGWORM INFESTATION AND FOR VACCINATION
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/749,234
; FILING DATE: 27-Dec-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/403,092
; FILING DATE: 1999-10-15
; APPLICATION NUMBER: DE 197 15 586.3
; FILING DATE: 15-APR-1997

```
;    ATTORNEY/AGENT INFORMATION:
;          NAME: Granados, Patricia D.
;          REGISTRATION NUMBER: 33,683
;          REFERENCE/DOCKET NUMBER: 038311/0103
;    TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (202) 672-5300
;          TELEFAX: (202) 672-5399
;  INFORMATION FOR SEQ ID NO: 2:
;    SEQUENCE CHARACTERISTICS:
;          LENGTH: 7 amino acids
;          TYPE: amino acid
;          STRANDEDNESS: <Unknown>
;          TOPOLOGY: linear
;    MOLECULE TYPE: protein
;    SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-749-234-2
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Query Match          76.9%;   Score 20;   DB 21;   Length 7;
Best Local Similarity   75.0%;   Pred. No. 6.4e+06;
Matches    3;   Conservative    1;   Mismatches    0;   Indels    0;   Gaps    0;

Qy      1 LDNF 4
          :|||
Db      2 MDNF 5
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Search completed: September 16, 2005, 12:10:49
Job time : 222 secs
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              GenCore version 5.1.6
         Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:        September 16, 2005, 11:57:54 ; Search time 76 Seconds
                                    (without alignments)
                                    26:640 Million cell updates/sec

Title:         US-10-795-795-12
Perfect score: 26
Sequence:      1 LDNFS 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched:      1812044 segs, 40497589 residues

Total number of hits satisfying chosen parameters:    219186

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

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           4:  /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
           5:  /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
           6:  /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
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           9:  /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
          10:  /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
          11:  /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
          12:  /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
          13:  /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
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          15:  /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
          16:  /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
          17:  /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep:*
          18:  /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep:*
          19:  /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
          20:  /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep:*
          21:  /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
          22:  /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
              /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Match Length	DB	DB ID	Description
1	26	100.0	5	10	US-09-911-129B-12	Sequence 12, Appl
2	26	100.0	5	16	US-10-795-795-12	Sequence 12, Appl
3	26	100.0	10	10	US-09-911-129B-11	Sequence 11, Appl
4	26	100.0	10	16	US-10-795-795-11	Sequence 11, Appl
5	22	84.6	10	10	US-09-573-822C-408	Sequence 408, App
6	21	80.8	8	10	US-09-457-571-6	Sequence 6, Appli
7	21	80.8	8	16	US-10-768-798-6	Sequence 2, Appli
8	20	76.9	7	9	US-09-749-234A-2	Sequence 2, Appli
9	20	76.9	8	10	US-09-908-943A-11	Sequence 11, Appl
10	20	76.9	8	10	US-09-908-943A-65	Sequence 65, Appl
11	20	76.9	8	10	US-09-908-943A-66	Sequence 66, Appl
12	20	76.9	8	10	US-09-908-943A-67	Sequence 67, Appl
13	20	76.9	8	10	US-09-908-943A-72	Sequence 72, Appl
14	20	76.9	8	11	US-10-801-487-11	Sequence 11, Appl
15	20	76.9	8	16	US-10-801-487-65	Sequence 65, Appl
16	20	76.9	8	16	US-10-801-487-66	Sequence 66, Appl
17	20	76.9	8	16	US-10-801-487-67	Sequence 67, Appl
18	20	76.9	8	16	US-10-801-487-72	Sequence 72, Appl
19	20	76.9	8	16	US-10-801-938-11	Sequence 11, Appl
20	20	76.9	8	16	US-10-801-938-65	Sequence 65, Appl
21	20	76.9	8	16	US-10-801-938-66	Sequence 66, Appl
22	20	76.9	8	16	US-10-801-938-67	Sequence 67, Appl
23	20	76.9	8	16	US-10-801-938-72	Sequence 72, Appl
24	20	76.9	8	16	US-10-801-509-11	Sequence 11, Appl
25	20	76.9	8	16	US-10-801-509-65	Sequence 65, Appl
26	20	76.9	8	16	US-10-801-509-66	Sequence 66, Appl
27	20	76.9	8	16	US-10-801-509-67	Sequence 67, Appl
28	20	76.9	8	16	US-10-801-509-72	Sequence 72, Appl
29	20	76.9	8	16	US-10-801-486-11	Sequence 11, Appl
30	20	76.9	8	16	US-10-801-486-65	Sequence 65, Appl
31	20	76.9	8	16	US-10-801-486-66	Sequence 66, Appl
32	20	76.9	8	16	US-10-801-486-67	Sequence 67, Appl
33	20	76.9	8	16	US-10-801-486-72	Sequence 72, Appl
34	20	76.9	8	17	US-10-801-493-11	Sequence 11, Appl
35	20	76.9	8	17	US-10-801-493-65	Sequence 65, Appl
36	20	76.9	8	17	US-10-801-493-66	Sequence 66, Appl
37	20	76.9	8	17	US-10-801-493-67	Sequence 67, Appl
38	20	76.9	8	17	US-10-801-493-72	Sequence 72, Appl
39	20	76.9	9	14	US-10-119-536A-111	Sequence 111, App
40	20	76.9	10	15	US-10-601-837-9	Sequence 9, Appli
41	19	73.1	15	15	US-10-436-549-13	Sequence 13, Appl
42	19	73.1	16	16	US-10-712-425-13	Sequence 13, Appl
43	19	73.1	17	5	US-10-808-187-2261	Sequence 2261, Ap
44	19	73.1	17	5	US-10-773-032-13	Sequence 13, Appl
45	19	73.1	18	5	US-10-807-807-2261	Sequence 2261, Ap

ALIGNMENTS

RESULT 1
US-09-911-129B-12
; Sequence 12, Application US/09911129B
; Publication No. US20030040600A1
; GENERAL INFORMATION:
; APPLICANT: Cleveland State University
; APPLICANT: Kalafatis, Michael
; APPLICANT: Mann, Kenneth G.
; TITLE OF INVENTION: Thrombin Generation Inhibitor
; FILE REFERENCE: 27433/04004
; CURRENT APPLICATION NUMBER: US/09/911,129B
; CURRENT FILING DATE: 2002-03-19
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
;
; SEQ ID NO 12
; LENGTH: 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-911-129B-12

Query Match   100.0%; Score 26; DB 10; Length 5;
Best Local Similarity   100.0%; Pred. No. 1.6e+06;
Matches   5; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNFS 5
              |||||
Db   1 LDNFS 5

RESULT 2
US-10-795-795-12
; Sequence 12, Application US/10795795
; Publication No. US20040018627lA1
; GENERAL INFORMATION:

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;     APPLICANT: Cleveland State University
;     APPLICANT: Kalafatis, Michael
;     APPLICANT: Mann, Kenneth G.
;     TITLE OF INVENTION: Thrombin Generation Inhibitor
;     FILE REFERENCE: 27433/04004
;     CURRENT APPLICATION NUMBER: US/10/795,795
;     CURRENT FILING DATE: 2004-03-08
;     PRIOR APPLICATION NUMBER: US/09/911,129B
;     PRIOR FILING DATE: 2002-03-19
;     NUMBER OF SEQ ID NOS: 17
;     SOFTWARE: PatentIn version 3.1
;     SEQ ID NO 12
;     LENGTH: 5
;     TYPE: PRT
;     ORGANISM: Homo sapiens
US-10-795-795-12

  Query Match             100.0%;  Score 26;  DB 16;  Length 5;
  Best Local Similarity   100.0%;  Pred. No. 1.6e+06;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          1 LDNFS 5

RESULT 3
US-09-911-129B-11
; Sequence 11, Application US/09911129B
; Publication No. US20030040600A1
; GENERAL INFORMATION:
;     APPLICANT: Cleveland State University
;     APPLICANT: Kalafatis, Michael
;     APPLICANT: Mann, Kenneth G.
;     TITLE OF INVENTION: Thrombin Generation Inhibitor
;     FILE REFERENCE: 27433/04004
;     CURRENT APPLICATION NUMBER: US/09/911,129B
;     CURRENT FILING DATE: 2002-03-19
;     NUMBER OF SEQ ID NOS: 17
;     SOFTWARE: PatentIn version 3.1
;     SEQ ID NO 11
;     LENGTH: 10
;     TYPE: PRT
;     ORGANISM: Homo sapiens
US-09-911-129B-11

  Query Match             100.0%;  Score 26;  DB 10;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 41;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          6 LDNFS 10

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US-10-795-795-11
; Sequence 11, Application US/10795795
; Publication No. US20040186271A1
; GENERAL INFORMATION:
;     APPLICANT: Cleveland State University
;     APPLICANT: Kalafatis, Michael
;     APPLICANT: Mann, Kenneth G.
;     TITLE OF INVENTION: Thrombin Generation Inhibitor
;     FILE REFERENCE: 27433/04004
;     CURRENT APPLICATION NUMBER: US/10/795,795
;     CURRENT FILING DATE: 2004-03-08
;     PRIOR APPLICATION NUMBER: US/09/911,129B
;     PRIOR FILING DATE: 2002-03-19
;     NUMBER OF SEQ ID NOS: 17
;     SOFTWARE: PatentIn version 3.1
;     SEQ ID NO 11
;     LENGTH: 10


;     TYPE: PRT
;     ORGANISM: Homo sapiens
US-10-795-795-11

  Query Match             100.0%;  Score 26;  DB 16;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 41;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
              |||||
Db          6 LDNFS 10

RESULT 5
US-09-573-822C-408
; Sequence 408, Application US/09573822C
; Publication No. US20030199011A1
; GENERAL INFORMATION:
;     APPLICANT: Proteom Ltd
;     TITLE OF INVENTION: Complementary peptide ligands generated from microbial genome seq
;     FILE REFERENCE: Microbe patent
;     CURRENT APPLICATION NUMBER: US/09/573,822C
;     CURRENT FILING DATE: 2000-05-18
;     NUMBER OF SEQ ID NOS: 804
;     SOFTWARE: ProtPatent version 1.0
;     SEQ ID NO 408
;     LENGTH: 10
;     TYPE: PRT
;     ORGANISM: mycoplasma genitalium
;     FEATURE:
;     OTHER INFORMATION: Sequence located in MG189 at 100-109 and may interact with Sequenc
;     OTHER INFORMATION: in this patent.
US-09-573-822C-408

  Query Match             84.6%;  Score 22;  DB 10;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 3e+02;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 DNFS 5
              ||||
Db          1 DNFS 4

RESULT 6
US-09-457-571-6
; Sequence 6, Application US/09457571
; Publication No. US20030092645A1
; GENERAL INFORMATION:
;     APPLICANT: Mandel, Gail
;     APPLICANT: Halegoua, Simon
;     TITLE OF INVENTION: Peripheral Nervous System Specific
;     TITLE OF INVENTION: Sodium Channels, DNA Encoding Therefor, Crystallization,
;     TITLE OF INVENTION: X-ray Diffraction, Computer Molecular Modeling, Rational
;     TITLE OF INVENTION: Drug Design, Drug Screening, and Methods of Making and Using
;     TITLE OF INVENTION: Thereof
;     NUMBER OF SEQUENCES: 19
;     CORRESPONDENCE ADDRESS:
;     ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
;     STREET: 1100 New York Ave., N. W., Suite 600
;     CITY: Washington
;     STATE: DC
;     COUNTRY: USA
;     ZIP: 20005-3934
;     COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/457,571
;     FILING DATE: 09-DEC-1999
;     CLASSIFICATION: 514
;     PRIOR APPLICATION DATA:
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APPLICATION NUMBER: 08/836,325
FILING DATE: 02-MAY-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14251
FILING DATE: 02-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/482,401
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/334,029
FILING DATE: 02-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0917.0240003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
US-09-457-571-6
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

Query Match   80.8%; Score 21; DB 10; Length 8;
Best Local Similarity 60.0%; Pred. No. 1.6e+06;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy   1 LDNFS 5
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Db   4 IDNFN 8

RESULT 7
US-10-768-798-6
; Sequence 6, Application US/10768798
; Publication No. US20040229792A1
GENERAL INFORMATION:
APPLICANT: Mandel, Gail
           Halegoua, Simon
TITLE OF INVENTION: Peripheral Nervous System Specific
Sodium Channels, DNA Encoding Therefor, Crystallization,
X-ray Diffraction, Computer Molecular Modeling, Rational
Drug Design, Drug Screening, and Methods of Making and Usin
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
STREET: 1100 New York Ave., N.W., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/768,798
FILING DATE: 29-Jan-2004
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/457,571
FILING DATE: 09-DEC-1999
APPLICATION NUMBER: 08/836,325
FILING DATE: 02-MAY-1997
APPLICATION NUMBER: PCT/US95/14251
FILING DATE: 02-NOV-1995
APPLICATION NUMBER: 08/482,401
FILING DATE: 07-JUN-1995

APPLICATION NUMBER: 08/334,029
FILING DATE: 02-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0917.0240003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-768-798-6

Query Match   80.8%; Score 21; DB 16; Length 8;
Best Local Similarity 60.0%; Pred. No. 1.6e+06;
Matches 3; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy   1 LDNFS 5
        :|||:
Db   4 IDNFN 8

RESULT 8
US-09-749-234A-2
; Sequence 2, Application US/09749234A
; Patent No. US2002006817A1
GENERAL INFORMATION:
APPLICANT: HOFMANN, Joachim
           SCHMID, Karlheinrich
           PAULI, Annette
TITLE OF INVENTION: DICTYOCAULUS VIVIPARUS ANTIGEN FOR THE
                    DIAGNOSIS OF LUNGWORM INFESTATION AND FOR VACCINATION
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/749,234A
FILING DATE: 27-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/403,092
FILING DATE: 199-10-15
APPLICATION NUMBER: DE 197 15 586.3
FILING DATE: 15-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Granados, Patricia D.
REGISTRATION NUMBER: 33,683
REFERENCE/DOCKET NUMBER: 038311/0103
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear

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      MOLECULE TYPE: protein
      SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-749-234A-2

Query Match             76.9%;  Score 20;  DB 9;  Length 7;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 LDNF 4
              :|||
Db          2 MDNF 5

RESULT 9
US-09-908-943A-11
; Sequence 11, Application US/09908943A
; Publication No. US20030017991A1
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomaselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US1
; CURRENT APPLICATION NUMBER: US/09/908,943A
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
US-09-908-943A-11

Query Match             76.9%;  Score 20;  DB 10;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Xaa= E, G, I, D, T, cysteic acid or S
US-09-908-943A-65

Query Match             76.9%;  Score 20;  DB 10;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7

RESULT 11
US-09-908-943A-66
; Sequence 66, Application US/09908943A
; Publication No. US20030017991A1
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomaselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US1
; CURRENT APPLICATION NUMBER: US/09/908,943A
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: peptide sequence
; NAME/KEY: SITE
; LOCATION: (2)
; OTHER INFORMATION: Xaa= A, V, I, S, H, Y, T or F
US-09-908-943A-66

Query Match             76.9%;  Score 20;  DB 10;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
Matches    3;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7

RESULT 12
US-09-908-943A-67
; Sequence 67, Application US/09908943A
; Publication No. US20030017991A1
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomaselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US1
; CURRENT APPLICATION NUMBER: US/09/908,943A
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
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RESULT 10
US-09-908-943A-65
; Sequence 65, Application US/09908943A
; Publication No. US20030017991A1
; GENERAL INFORMATION:
; APPLICANT: Yan, Riqiang
; APPLICANT: Tomaselli, Alfredo G.
; APPLICANT: Gurney, Mark E.
; APPLICANT: Emmons, Thomas L.
; APPLICANT: Bienkowski, Mike J.
; APPLICANT: Heinrikson, Robert L.
; TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
; FILE REFERENCE: 29915/00281A.US1
; CURRENT APPLICATION NUMBER: US/09/908,943A
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,795
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 65
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence

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,   PRIOR FILING DATE: 2000-07-19
,   NUMBER OF SEQ ID NOS: 197
,   SOFTWARE: PatentIn Ver. 2.0
,   SEQ ID NO 67
,   LENGTH: 8
,   TYPE: PRT
,   ORGANISM: Artificial Sequence
,   FEATURE:
,   OTHER INFORMATION: Description of Artificial Sequence: synthetic
,   OTHER INFORMATION: peptide sequence
,   NAME/KEY: SITE
,   LOCATION: (3)
,   OTHER INFORMATION: Xaa= N, L, K, S, G, T, D, A, Q or E
US-09-908-943A-67

Query Match             76.9%;  Score 20;  DB 10;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7


RESULT 13
US-09-908-943A-72
;   Sequence 72, Application US/09908943A
;   Publication No. US20030017991A1
;   GENERAL INFORMATION:
;   APPLICANT: Yan, Riqiang
;   APPLICANT: Tomasselli, Alfredo G.
;   APPLICANT: Gurney, Mark E.
;   APPLICANT: Emmons, Thomas L.
;   APPLICANT: Bienkowski, Mike J.
;   APPLICANT: Heinrikson, Robert L.
;   TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
;   FILE REFERENCE: 29915/00281A.US1
;   CURRENT APPLICATION NUMBER: US/09/908,943A
;   CURRENT FILING DATE: 2001-07-19
;   PRIOR APPLICATION NUMBER: 60/219,795
;   PRIOR FILING DATE: 2000-07-19
;   NUMBER OF SEQ ID NOS: 197
;   SOFTWARE: PatentIn Ver. 2.0
;   SEQ ID NO 72
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
;   OTHER INFORMATION: peptide sequence
;   NAME/KEY: SITE
;   LOCATION: (8)
;   OTHER INFORMATION: Xaa= F, W, G, A, H, P, G, N or S
US-09-908-943A-72

Query Match             76.9%;  Score 20;  DB 10;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7


RESULT 14
US-10-801-487-11
;   Sequence 11, Application US/10801487
;   Publication No. US20040241792A1
;   GENERAL INFORMATION:
;   APPLICANT: Yan et al.
;   TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
;   FILE REFERENCE: 29915/00281F
;   CURRENT APPLICATION NUMBER: US/10/801,487
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,   CURRENT FILING DATE: 2004-03-16
,   PRIOR APPLICATION NUMBER: 09/908,943
,   PRIOR FILING DATE: 2001-07-19
,   PRIOR APPLICATION NUMBER: 60/219,795
,   PRIOR FILING DATE: 2000-07-19
,   NUMBER OF SEQ ID NOS: 197
,   SOFTWARE: PatentIn Ver. 2.0
,   SEQ ID NO 11
,   LENGTH: 8
,   TYPE: PRT
,   ORGANISM: Artificial Sequence
,   FEATURE:
,   OTHER INFORMATION: Description of Artificial Sequence: synthetic
,   OTHER INFORMATION: peptide sequence
US-10-801-487-11

Query Match             76.9%;  Score 20;  DB 16;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7


RESULT 15
US-10-801-487-65
;   Sequence 65, Application US/10801487
;   Publication No. US20040241792A1
;   GENERAL INFORMATION:
;   APPLICANT: Yan et al.
;   TITLE OF INVENTION: SUBSTRATES AND ASSAYS FOR BETA-SECRETASE ACTIVITY
;   FILE REFERENCE: 29915/00281F
;   CURRENT APPLICATION NUMBER: US/10/801,487
;   CURRENT FILING DATE: 2004-03-16
;   PRIOR APPLICATION NUMBER: 09/908,943
;   PRIOR FILING DATE: 2001-07-19
;   PRIOR APPLICATION NUMBER: 60/219,795
;   PRIOR FILING DATE: 2000-07-19
;   NUMBER OF SEQ ID NOS: 197
;   SOFTWARE: PatentIn Ver. 2.0
;   SEQ ID NO 65
;   LENGTH: 8
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
;   OTHER INFORMATION: peptide sequence
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (1)
;   OTHER INFORMATION: Xaa= E, G, I, D, T, cysteic acid or S
US-10-801-487-65

Query Match             76.9%;  Score 20;  DB 16;  Length 8;
Best Local Similarity   75.0%;  Pred. No. 1.6e+06;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNF 4
              :|||
Db          4 MDNF 7


Search completed: September 16, 2005, 12:16:27
Job time : 77 secs
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                GenCore version 5.1.6
        Copyright (c) 1993 - 2005  Compugen Ltd.

OM protein - protein search, using sw model

Run on:      September 16, 2005, 11:46:58 ; Search time 19.3333 Seconds
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Title:           US-10-795-795-12
Perfect score:   26
Sequence:        1 LDNFS 5

Scoring table:   BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched:        513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters:       115489

Minimum DB seq length: 3
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	26	100.0	5	4	US-09-911-129B-12	Sequence 12, Appl
2	26	100.0	10	4	US-09-911-129B-11	Sequence 11, Appl
3	21	80.8	8	3	US-08-836-325-6	Sequence 6, Appli
4	21	80.8	8	4	US-09-457-571-6	Sequence 6, Appli
5	19	73.1	6	1	US-09-822-270-5	Sequence 5, Appli
6	18	69.2	6	2	US-07-932-200-3	Sequence 3, Appli
7	18	69.2	6	2	US-08-387-749-3	Sequence 3, Appli
8	18	69.2	6	5	PCT-US93-08231-3	Sequence 3, Appli
9	18	69.2	7	2	US-08-845-742-4	Sequence 4, Appli
10	18	69.2	7	4	US-08-687-702-32	Sequence 32, Appl
11	18	69.2	7	4	US-09-721-870-122	Sequence 122, App
12	18	69.2	7	4	US-09-721-870-123	Sequence 123, App
13	18	69.2	7	4	US-09-693-746-27	Sequence 27, Appl
14	18	69.2	7	4	US-09-693-746-143	Sequence 143, App
15	18	69.2	8	4	US-09-693-746-146	Sequence 146, App
16	18	69.2	8	1	US-08-462-894-23	Sequence 23, Appl
17	18	69.2	8	2	US-08-206-185-23	Sequence 23, Appl
18	18	69.2	8	2	US-08-669-284B-33	Sequence 33, Appl
19	18	69.2	8	4	US-09-388-413B-3	Sequence 3, Appli
20	18	69.2	9	1	US-10-233-745-3	Sequence 3, Appli
21	18	69.2	9	1	US-08-447-500-26	Sequence 26, Appl
22	18	69.2	9	1	US-08-454-097-26	Sequence 26, Appl
23	18	69.2	9	2	US-08-453-866-26	Sequence 26, Appl
24	18	69.2	9	2	US-08-359-705B-36	Sequence 36, Appl
25	18	69.2	9	9	US-08-340-283-203	Sequence 203, App
26	18	69.2	9	2	US-08-286-846A-36	Sequence 36, Appl
27	18	69.2	9	2	US-08-457-880A-36	Sequence 36, Appl
28	18	69.2	9	2	US-08-318-856A-1	Sequence 1, Appli
29	18	69.2	9	3	US-08-444-622A-36	Sequence 36, Appl
30	18	69.2	9	3	US-08-942-562-36	Sequence 36, Appl
31	18	69.2	9	3	US-08-159-339A-128	Sequence 128, App
32	18	69.2	9	3	US-08-185-359-26	Sequence 26, Appl
33	18	69.2	9	4	US-09-156-923-36	Sequence 36, Appl
34	18	69.2	9	4	US-08-197-484-21	Sequence 21, Appl
35	18	69.2	9	4	US-09-543-608A-48	Sequence 48, Appl
36	18	69.2	9	4	US-09-454-204A-6	Sequence 6, Appli
37	18	69.2	9	4	US-09-239-043D-2492	Sequence 2492, Ap
38	18	69.2	9	4	US-09-763-397A-9	Sequence 9, Appli
39	18	69.2	9	5	US-09-693-746-32	Sequence 32, Appl
40	18	69.2	10	1	PCT-US95-02121-21	Sequence 21, Appl
41	18	69.2	10	1	US-08-229-515A-1	Sequence 1, Appli
42	18	69.2	10	1	US-08-645-865-1	Sequence 1, Appli
43	18	69.2	10	5	PCT-US93-08067-4	Sequence 4, Appli
44	17	65.4	5	4	US-09-788-006-163	Sequence 163, App
45	17	65.4	6	1	US-08-136-743B-62	Sequence 62, Appl

ALIGNMENTS

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RESULT 1
US-09-911-129B-12
; Sequence 12, Application US/09911129B
; Patent No. 6703364
; GENERAL INFORMATION:
;   APPLICANT:  Cleveland State University
;   APPLICANT:  Kalafatis, Michael
;   APPLICANT:  Mann, Kenneth G.
;   TITLE OF INVENTION: Thrombin Generation Inhibitor
;   FILE REFERENCE: 27433/04004
;   CURRENT APPLICATION NUMBER: US/09/911,129B
;   CURRENT FILING DATE: 2002-03-19
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 5
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-911-129B-12

  Query Match             100.0%;  Score 26;  DB 4;  Length 5;
  Best Local Similarity   100.0%;  Pred. No. 4.1e+05;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LDNFS 5
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Db          1 LDNFS 5


RESULT 2
US-09-911-129B-11
; Sequence 11, Application US/09911129B
; Patent No. 6703364
; GENERAL INFORMATION:
;   APPLICANT:  Cleveland State University
;   APPLICANT:  Kalafatis, Michael
;   APPLICANT:  Mann, Kenneth G.
;   TITLE OF INVENTION: Thrombin Generation Inhibitor
;   FILE REFERENCE: 27433/04004
;   CURRENT APPLICATION NUMBER: US/09/911,129B
;   CURRENT FILING DATE: 2002-03-19
;   NUMBER OF SEQ ID NOS: 17
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-911-129B-11

  Query Match             100.0%;  Score 26;  DB 4;  Length 10;
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Best Local Similarity 100.0%; Pred. No. 6.2;
Matches   5; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 LDNFS 5
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Db    6 LDNFS 10
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RESULT 3
US-08-836-325-6
; Sequence 6, Application US/08836325
; Patent No. 610672
; GENERAL INFORMATION:
; APPLICANT: Mandel, Gail
; APPLICANT: Halegoua, Simon
; APPLICANT: Borden, Laurence A.
; TITLE OF INVENTION: Peripheral Nervous System Specific
; TITLE OF INVENTION: Sodium Channels, DNA Encoding Therefor, Crystallization,
; TITLE OF INVENTION: X-ray Diffraction, Computer Molecular Modeling, Rational
; TITLE OF INVENTION: Drug Design, Drug Screening, and Methods of Making and Using
; TITLE OF INVENTION: Thereof
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
; STREET: 1100 New York Ave., N. W., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,325
; FILING DATE: 2-MAY-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/14251
; FILING DATE: 02-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/482,401
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/334,029
; FILING DATE: 02-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0917.0240002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-325-6

Query Match 80.8%; Score 21; DB 3; Length 8;
Best Local Similarity 60.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 LDNFS 5
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Db    4 IDNFN 8
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RESULT 4

US-09-457-571-6
; Sequence 6, Application US/09457571
; Patent No. 6703486
; GENERAL INFORMATION:
; APPLICANT: Mandel, Gail
; APPLICANT: Halegoua, Simon
; TITLE OF INVENTION: Peripheral Nervous System Specific
; TITLE OF INVENTION: Sodium Channels, DNA Encoding Therefor, Crystallization,
; TITLE OF INVENTION: X-ray Diffraction, Computer Molecular Modeling, Rational
; TITLE OF INVENTION: Drug Design, Drug Screening, and Methods of Making and Using
; TITLE OF INVENTION: Thereof
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C
; STREET: 1100 New York Ave., N. W., Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/457,571
; FILING DATE: 09-DEC-1999
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,325
; FILING DATE: 02-MAY-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/14251
; FILING DATE: 02-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/482,401
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/334,029
; FILING DATE: 02-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ludwig, Steven R.
; REGISTRATION NUMBER: 36,203
; REFERENCE/DOCKET NUMBER: 0917.0240003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-457-571-6

Query Match 80.8%; Score 21; DB 4; Length 8;
Best Local Similarity 60.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

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Qy    1 LDNFS 5
        :|||:
Db    4 IDNFN 8
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RESULT 5
US-09-822-270-5
; Sequence 5, Application US/09822270
; Patent No. 6559126
; GENERAL INFORMATION:
; APPLICANT: TOURNAIRE, ROSELYNE
; APPLICANT: DEMANGEL, CAROLINE
; APPLICANT: DERBIN, CLAUDE

```
APPLICANT:   PERRET, GERARD
APPLICANT:   MAZIE, JEAN-CLAUDE
APPLICANT:   PLOUET, JEAN
APPLICANT:   VASSAY, ROGER
TITLE OF INVENTION:  PEPTIDES BLOCKING VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF)-MEDIA
TITLE OF INVENTION:  ANGIOGENESIS, POLYNUCLEOTIDES ENCODING SAID PEPTIDES AND METHODS
FILE REFERENCE: 205060US0
CURRENT APPLICATION NUMBER: US/09/822,270
CURRENT FILING DATE: 2001-04-02
PRIOR APPLICATION NUMBER: US 60/193,396
PRIOR FILING DATE: 2000-03-31
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
  LENGTH: 7
  TYPE: PRT
  ORGANISM: ARTIFICIAL SEQUENCE
  FEATURE:
  OTHER INFORMATION: SYNTHETIC PEPTIDE
US-09-822-270-5

Query Match          73.1%; Score 19; DB 4; Length 7;
Best Local Similarity 75.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LDNF 4
       |||:
Db   2 LDNY 5

RESULT 6
US-07-932-200-3
; Sequence 3, Application US/07932200
; Patent No. 5366862
; GENERAL INFORMATION:
  APPLICANT: VENTON, DUANE L.
  APPLICANT: HOPPINGER, ANTON J.
  APPLICANT: LE BRETON, GUY
  TITLE OF INVENTION: METHOD FOR GENERATING AND SCREENING
  TITLE OF INVENTION: USEFUL PEPTIDES
  NUMBER OF SEQUENCES: 20
  CORRESPONDENCE ADDRESS:
  ADDRESSEE: BROWDY AND NEIMARK
  STREET: 419 SEVENTH STREET, N.W.
  CITY: WASHINGTON
  STATE: D.C.
  COUNTRY: U.S.A.
  ZIP: 20004
  COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/07/932,200
  FILING DATE: 21-AUG-1992
  CLASSIFICATION: 435
  ATTORNEY/AGENT INFORMATION:
  NAME: COOPER, IVER P.
  REGISTRATION NUMBER: 28,005
  REFERENCE/DOCKET NUMBER: VENTON=1B
  TELECOMMUNICATION INFORMATION:
  TELEPHONE: 202-628-5197
  TELEFAX: 202-737-3528
  TELEX: 248633
  INFORMATION FOR SEQ ID NO: 3:
  SEQUENCE CHARACTERISTICS:
  LENGTH: 6 amino acids
  TYPE: amino acid
  STRANDEDNESS: single
  TOPOLOGY: linear
  MOLECULE TYPE: peptide
US-07-932-200-3
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Query Match          69.2%; Score 18; DB 1; Length 6;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 DNF 4
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Db   4 DNF 6

RESULT 7
US-08-387-749-3
; Sequence 3, Application US/08387749
; Patent No. 5814460
; GENERAL INFORMATION:
  APPLICANT: VENTON, DUANE L.
  APPLICANT: HOPFINGER, ANTON J.
  APPLICANT: LE BRETON, GUY
  TITLE OF INVENTION: METHOD FOR GENERATING AND SCREENING
  TITLE OF INVENTION: USEFUL PEPTIDES
  NUMBER OF SEQUENCES: 20
  CORRESPONDENCE ADDRESS:
  ADDRESSEE: BROWDY AND NEIMARK
  STREET: 419 SEVENTH STREET, N.W.
  CITY: WASHINGTON
  STATE: D.C.
  COUNTRY: U.S.A.
  ZIP: 20004
  COMPUTER READABLE FORM:
  MEDIUM TYPE: Floppy disk
  COMPUTER: IBM PC compatible
  OPERATING SYSTEM: PC-DOS/MS-DOS
  SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/387,749
  FILING DATE: 21-Feb-1995
  CLASSIFICATION: 435
  PRIOR APPLICATION DATA:
  APPLICATION NUMBER: PCT/US93/08231
  FILING DATE: 09-AUG-1993
  PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 07/932,200
  FILING DATE: 21-AUG-1992
  PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 07/813,315
  FILING DATE: 21-AUG-1991
  PRIOR APPLICATION DATA:
  APPLICATION NUMBER: PCT/US91/00891
  FILING DATE: 14-FEB-1991
  PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 07/480,865
  FILING DATE: 14-FEB-1990
  ATTORNEY/AGENT INFORMATION:
  NAME: COOPER, IVER P.
  REGISTRATION NUMBER: 28,005
  REFERENCE/DOCKET NUMBER: VENTON=1C
  TELECOMMUNICATION INFORMATION:
  TELEPHONE: 202-628-5197
  TELEFAX: 202-737-3528
  TELEX: 248633
  INFORMATION FOR SEQ ID NO: 3:
  SEQUENCE CHARACTERISTICS:
  LENGTH: 6 amino acids
  TYPE: amino acid
  STRANDEDNESS: single
  TOPOLOGY: linear
  MOLECULE TYPE: peptide
US-08-387-749-3

Query Match          69.2%; Score 18; DB 2; Length 6;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches   3; Conservative   0; Mismatches   0; Indels   0; Gaps   0;
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Qy          2 DNF 4
               |||
Db          4 DNF 6

RESULT 8
US-08-845-742-4
; Sequence 4, Application US/08845742C
; Patent No. 5973229
; GENERAL INFORMATION:
;    APPLICANT: Walton, Jonathan D
;    APPLICANT: Scott-Craig, John S
;    TITLE OF INVENTION: Gene Encoding Herbicide Safener Binding Protein
;    FILE REFERENCE: 6550-000007
;    CURRENT APPLICATION NUMBER: US/08/845,742C
;    CURRENT FILING DATE: 1997-04-25
;    NUMBER OF SEQ ID NOS: 9
;    SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;    LENGTH: 6
;    TYPE: PRT
;    ORGANISM: Zea mays
US-08-845-742-4

Query Match             69.2%;  Score 18;  DB 2;  Length 6;
Best Local Similarity  100.0%;  Pred. No. 4.1e+05;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 DNF 4
               |||
Db          1 DNF 3

RESULT 9
PCT-US93-08231-3
; Sequence 3, Application PC/TUS9308231
; GENERAL INFORMATION:
;    APPLICANT: VENTON, DUANE L.
;    APPLICANT: HOPFINGER, ANTON J.
;    APPLICANT: LE BRETON, GUY
;    TITLE OF INVENTION: METHOD FOR GENERATING AND SCREENING
;    TITLE OF INVENTION: USEFUL PEPTIDES
;    NUMBER OF SEQUENCES: 20
;    CORRESPONDENCE ADDRESS:
;       ADDRESSEE: BROWDY AND NEIMARK
;       STREET: 419 SEVENTH STREET, N.W.
;       CITY: WASHINGTON
;       STATE: D.C.
;       COUNTRY: U.S.A.
;       ZIP: 20004
;    COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: PCT/US93/08231
;       FILING DATE:
;    CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;       NAME: COOPER, IVER P.
;       REGISTRATION NUMBER: 28,005
;       REFERENCE/DOCKET NUMBER: VENTON1C.PCT
;    TELECOMMUNICATION INFORMATION:
;       TELEPHONE: 202-628-5197
;       TELEFAX: 202-737-3528
;       TELEX: 248633
; INFORMATION FOR SEQ ID NO: 3:
;    SEQUENCE CHARACTERISTICS:
;       LENGTH: 6 amino acids
;       TYPE: amino acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
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;    MOLECULE TYPE: peptide
PCT-US93-08231-3

Query Match             69.2%;  Score 18;  DB 5;  Length 6;
Best Local Similarity  100.0%;  Pred. No. 4.1e+05;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 DNF 4
               |||
Db          4 DNF 6

RESULT 10
US-08-687-702-32
; Sequence 32, Application US/08687702
; Patent No. 5922856
; GENERAL INFORMATION:
;    APPLICANT: Fritz, Christian C.
;    APPLICANT: Green, Michael R.
;    TITLE OF INVENTION: NOVEL HUMAN PROTEIN CRITICAL
;    TITLE OF INVENTION: FOR HIV REPLICATION
;    NUMBER OF SEQUENCES: 37
;    CORRESPONDENCE ADDRESS:
;       ADDRESSEE: Fish & Richardson, P.C.
;       STREET: 225 Franklin Street
;       CITY: Boston
;       STATE: MA
;       COUNTRY: US
;       ZIP: 02110-2804
;    COMPUTER READABLE FORM:
;       MEDIUM TYPE: Diskette
;       COMPUTER: IBM Compatible
;       OPERATING SYSTEM: Windows95
;       SOFTWARE: FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/08/687,702
;       FILING DATE: 27-JUN-1996
;       CLASSIFICATION: 536
;    PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: 60/000,551
;       FILING DATE: 27-JUN-1995
;    ATTORNEY/AGENT INFORMATION:
;       NAME: Fasse, J. Peter
;       REGISTRATION NUMBER: 32,983
;       REFERENCE/DOCKET NUMBER: 04020/103001
;    TELECOMMUNICATION INFORMATION:
;       TELEPHONE: 617-542-5070
;       TELEFAX: 617-542-8906
;       TELEX: 200154
; INFORMATION FOR SEQ ID NO: 32:
;    SEQUENCE CHARACTERISTICS:
;       LENGTH: 7 amino acids
;       TYPE: amino acid
;       TOPOLOGY: linear
;    MOLECULE TYPE: protein
US-08-687-702-32

Query Match             69.2%;  Score 18;  DB 2;  Length 7;
Best Local Similarity  100.0%;  Pred. No. 4.1e+05;
Matches    3;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 DNF 4
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Db          5 DNF 7

RESULT 11
US-09-721-870-122
; Sequence 122, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
;    APPLICANT: Lowery, David E.
;    APPLICANT: Geary, Timothy G.
```

; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 122
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Drosophila
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (7)
; OTHER INFORMATION: AMIDATION
US-09-721-870-122

Query Match   69.2%;   Score 18;   DB 4;   Length 7;
Best Local Similarity 100.0%;   Pred. No. 4.1e+05;
Matches   3;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   2 DNF 4
            |||
Db   2 DNF 4

RESULT 12
US-09-721-870-123
; Sequence 123, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Geary, Timothy G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 123
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Drosophila
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (7)
; OTHER INFORMATION: AMIDATION
US-09-721-870-123

Query Match   69.2%;   Score 18;   DB 4;   Length 7;
Best Local Similarity 100.0%;   Pred. No. 4.1e+05;
Matches   3;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   2 DNF 4
            |||
Db   2 DNF 4

RESULT 13
US-09-693-746-27
; Sequence 27, Application US/09693746
; Patent No. 6835546
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Smith, Valdin G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, And Method
; TITLE OF INVENTION: Related To The Same
; FILE REFERENCE: 6297.1cp

; CURRENT APPLICATION NUMBER: US/09/693,746
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 09/425,676
; PRIOR FILING DATE: 1999-10-22
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: No. 6835546e1 Sequence
US-09-693-746-27

Query Match   69.2%;   Score 18;   DB 4;   Length 7;
Best Local Similarity 100.0%;   Pred. No. 4.1e+05;
Matches   3;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   2 DNF 4
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Db   2 DNF 4

RESULT 14
US-09-693-746-143
; Sequence 143, Application US/09693746
; Patent No. 6835546
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Smith, Valdin G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, And Method
; TITLE OF INVENTION: Related To The Same
; FILE REFERENCE: 6297.1cp
; CURRENT APPLICATION NUMBER: US/09/693,746
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 09/425,676
; PRIOR FILING DATE: 1999-10-22
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 7
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: No. 6835546e1 Sequence
US-09-693-746-143

Query Match   69.2%;   Score 18;   DB 4;   Length 7;
Best Local Similarity 100.0%;   Pred. No. 4.1e+05;
Matches   3;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy   2 DNF 4
            |||
Db   2 DNF 4

RESULT 15
US-09-693-746-146
; Sequence 146, Application US/09693746
; Patent No. 6835546
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Smith, Valdin G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: Drosophila G Protein Coupled Receptors, Nucleic Acids, And Method
; TITLE OF INVENTION: Related To The Same
; FILE REFERENCE: 6297.1cp
; CURRENT APPLICATION NUMBER: US/09/693,746
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 09/425,676

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;   PRIOR FILING DATE: 1999-10-22
;   NUMBER OF SEQ ID NOS: 168
;   SOFTWARE: PatentIn version 3.1
;   SEQ ID NO 146
;     LENGTH: 7
;     TYPE: PRT
;     ORGANISM: Artificial Sequence
;     FEATURE:
;     OTHER INFORMATION: No. 6835546e1 Sequence
US-09-693-746-146

Query Match       69.2%;    Score 18;   DB 4;   Length 7;
Best Local Similarity   100.0%;   Pred. No. 4.1e+05;
Matches     3;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;

Qy         2 DNF 4
             |||
Db         2 DNF 4

Search completed: September 16, 2005, 11:59:37
Job time : 20.3333 secs
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